

RECORD OF DECISION

Operable Unit One

Cornell-Dubilier Electronics Superfund Site
South Plainfield, Middlesex County, New Jersey

United States Environmental Protection Agency

Region II

September 2003

847590001

DECLARATION STATEMENT

RECORD OF DECISION

SITE NAME AND LOCATION

Cornell-Dubilier Electronics, Inc. Site (EPA ID# NJD981557879)
Borough of South Plainfield, Middlesex County, New Jersey
Operable Unit 1

STATEMENT OF BASIS AND PURPOSE

This decision document presents the Selected Remedy to address Operable Unit 1 of the Cornell-Dubilier Electronics Superfund Site (the "Site"), consisting of contaminated soil and interior dust at properties in the vicinity of the former Cornell-Dubilier Electronics (CDE) facility, in South Plainfield, New Jersey, which was chosen in accordance with the Comprehensive Environmental Response, Compensation and Liability Act, as amended (CERCLA), and to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan. This decision is based on the Administrative Record file for the Site.

The State of New Jersey does not concur with EPA's Remediation Goal of 1 part per million (1 ppm) for polychlorinated biphenyls (PCBs) in soil. However, the State otherwise concurs with the Selected Remedy.

ASSESSMENT OF THE SITE

The response action selected in this Record of Decision (ROD) is necessary to protect public health, welfare or the environment from actual or threatened releases of hazardous substances from the Site into the environment.

DESCRIPTION OF THE SELECTED REMEDY

The Selected Remedy described in this document involves the remediation of PCB contamination that is found on residential, commercial, and municipal properties located in the vicinity of the former CDE facility. This is the first of three planned remedial phases, or operable units, for the CDE Site, identified as Operable Unit 1 (OU1). A second operable unit is planned to address the contaminated soils and buildings at the former CDE facility, and a third and final operable unit will address contaminated groundwater at the Site, and contaminated sediments of the Bound Brook. The major components of the Selected Remedy include:

- excavation of an estimated 2,100 cubic yards of contaminated soil from approximately 16 properties, backfilling with clean fill, and property restoration as necessary;

- transportation of the contaminated soil off-site for disposal, with treatment as necessary;
- indoor dust remediation where PCB-contaminated dust is encountered; and,
- where necessary, temporary relocation of residents during the indoor remediation.

As described in more detail in the Decision Summary, EPA's studies to date have identified four properties where actions need to be taken, and a study area of approximately 59 properties that require expanded soil and interior dust sampling to determine if additional properties require remediation. EPA has estimated that this sampling may identify as many as 12 additional properties, and the Selected Remedy takes into account the likelihood that some of these properties may require some degree of remedial response. In addition, the Selected Remedy requires a re-evaluation of the 13 residential properties where soil removal actions have already been performed, to ensure that those cleanups are consistent with the remediation goals established here. The Selected Remedy will be the final remedy for properties in the vicinity of the CDE Site.

DECLARATION OF STATUTORY DETERMINATIONS

Part 1: Statutory Requirements

The Selected Remedy is protective of human health and the environment, complies with Federal and State requirements that are legally applicable or relevant and appropriate to the remedial action, and is cost-effective. The Selected Remedy utilizes permanent solutions and alternative treatment (or resource recovery) technologies to the maximum extent practicable.

Part 2: Statutory Preference for Treatment

Based on the sampling performed to date, the contaminated soil will not require treatment to meet the requirements of off-site disposal facilities. The Selected Remedy does not meet the statutory preference for the use of remedies that employ treatment that reduces toxicity, mobility or volume as a principal element.

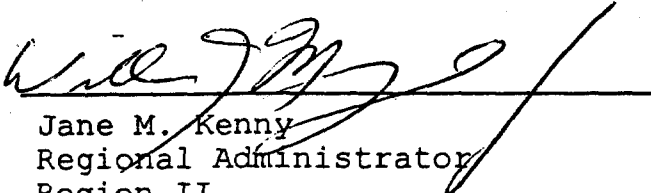
Part 3: Five-Year Review Requirements

Because the Selected Remedy will not result in hazardous substances remaining on affected properties above health-based levels, a statutory five-year review is not required.

ROD DATA CERTIFICATION CHECKLIST

The following information is included in the Decision Summary section of this ROD. Additional information can be found in the Administrative Record for this Site.

- Chemicals of concern and their respective concentrations may be found in the "Site Characteristics" section.
- Baseline risk represented by the chemicals of concern may be found in the "Summary of Site Risks" section.
- A discussion of cleanup levels for chemicals of concern may be found in the "Remedial Action Objectives" section.
- A discussion of source materials constituting principal threats may be found in the "Principal Threat Waste" section.
- Current and reasonably anticipated future land use assumptions are discussed in the "Current and Potential Future Site and Resource Uses" section.
- A discussion of potential land uses that will be available at the Site as a result of the Selected Remedy are discussed in the "Remedial Action Objectives" section.
- Estimated capital, annual operation and maintenance (O&M), and total present worth costs are discussed in the "Description of Alternatives" section.
- Key factors that led to selecting the remedy (i.e., how the Selected Remedy provides the best balance of tradeoffs with respect to the balancing and modifying criteria, highlighting criteria key to the decisions) may be found in the "Comparative Analysis of Alternatives" and "Statutory Determinations" sections.


Jane M. Kenny
Regional Administrator
Region II

9/30/13
Date

DECISION SUMMARY

Operable Unit One

Cornell-Dubilier Electronics Site

South Plainfield, Middlesex County, New Jersey

United States Environmental Protection Agency

Region II

September 2003

847590005

TABLE OF CONTENTS

	<u>page</u>
SITE NAME, LOCATION AND DESCRIPTION	1
SITE HISTORY AND ENFORCEMENT ACTIVITIES	2
HIGHLIGHTS OF COMMUNITY PARTICIPATION	4
SCOPE AND ROLE OF THIS OPERABLE UNIT	5
SUMMARY OF SITE CHARACTERISTICS	5
CURRENT AND POTENTIAL FUTURE SITE AND RESOURCE USES	8
SUMMARY OF SITE RISKS	9
REMEDIAL ACTION OBJECTIVES	15
DESCRIPTION OF REMEDIAL ALTERNATIVES	16
COMPARATIVE ANALYSIS OF ALTERNATIVES	20
PRINCIPAL THREAT WASTE	26
SELECTED REMEDY	26
STATUTORY DETERMINATIONS	28
DOCUMENTATION OF SIGNIFICANT CHANGES	33

APPENDICES

APPENDIX I	FIGURES
APPENDIX II	TABLES
APPENDIX III	ADMINISTRATIVE RECORD INDEX
APPENDIX IV	STATE CONCURRENCE LETTER
APPENDIX V	RESPONSIVENESS SUMMARY

SITE NAME, LOCATION AND DESCRIPTION

The Cornell-Dubilier Electronics (CDE) Site is located at 333 Hamilton Boulevard, South Plainfield, Middlesex County, New Jersey. The Site includes three operable units. Operable Unit 1 (OU1) consists of residential, commercial, and municipal properties located in the vicinity of the former CDE facility. Operable Unit 2 (OU2) addresses contaminated soils and buildings at the former CDE facility. The third and final operable unit (OU3) will address contaminated groundwater and contaminated sediments of the Bound Brook.

The former CDE facility, now known as the Hamilton Industrial Park, consists of approximately 26 acres containing 18 buildings that are currently used by a variety of commercial and industrial tenants. The facility is bounded on the northeast by the Bound Brook and the former Lehigh Valley Railroad, Perth Amboy Branch (presently Conrail); on the southeast by the Bound Brook and a property used by the South Plainfield Department of Public Works; on the southwest, across Spicer Avenue, by single-family residential properties; and on the northwest, across Hamilton Boulevard, by mixed residential and commercial properties (see Appendix I, Figure 1).

CDE operated at the Site from 1936 to 1962, manufacturing electronic components including, in particular, capacitors. PCBs and chlorinated organic solvents were used in the manufacturing process, and it has been alleged that during CDE's period of operation, the company disposed of PCB-contaminated materials and other hazardous substances at the Site. These activities evidently led to widespread chemical contamination at the facility, as well as migration of contaminants to areas nearby. PCBs have been detected in the groundwater, soils and in building interiors at the industrial park, at adjacent residential, commercial, and municipal properties, and in the surface water and sediments of the Bound Brook. High levels of volatile organic compounds (VOCs) have been found in the facility soils and in groundwater. Since CDE's departure from the facility in 1962, it has been operated as a rental property, with over 100 commercial and industrial companies operating at the facility as tenants.

The CDE Site is on the U.S. Environmental Protection Agency's (EPA's) National Priorities List (NPL). EPA is the lead agency, and the New Jersey Department of Environmental Protection (NJDEP) is the support agency.

SITE HISTORY AND ENFORCEMENT ACTIVITIES

Operations and State and Federal Response Actions

In June 1994, at the request of the New Jersey Department of Environmental Protection (NJDEP), EPA collected and analyzed soil, surface water and sediments at the facility. The results of the sample analyses revealed that elevated levels of PCBs, volatile organic compounds (VOCs), and inorganic chemicals were present at the Site.

In February, June and July 1996, EPA collected and analyzed additional soil samples at the facility. The results confirmed the presence of elevated levels of PCBs, and also identified the presence of elevated levels of lead.

As a result of the contamination found at the facility, in March 1997, EPA ordered the owner of the facility property, D.S.C. of Newark Enterprises, Inc. (DSC), a potentially responsible party (PRP), to perform a removal action to mitigate risks associated with contaminated soil and surface water runoff from the facility. The removal action included paving driveways and parking areas in the industrial park, installing a security fence, and implementing drainage controls.

In 1997, EPA conducted a preliminary investigation of the Bound Brook to evaluate the potential impacts of contamination on human health and the environment. Elevated levels of PCBs were found in fish and sediments of the Bound Brook. As a result of these investigations, NJDEP issued a fish consumption advisory for the Bound Brook and its tributaries, including New Market Pond and Spring Lake.

In October and November 1997, EPA collected soil and indoor dust samples from residential properties on Spicer Avenue, near the facility property. EPA and the Agency for Toxic Substances and Disease Registry (ATSDR) reviewed the data obtained from this sampling and concluded that exposure to PCBs in dust and soil posed a potential health concern for residents at several of the properties tested. To limit the potential for exposure to PCBs until a final remedy could be selected, EPA initiated another removal action to clean the interiors of seven homes on Spicer Avenue, Garibaldi Avenue, and Hamilton Boulevard. EPA performed interior cleaning on seven properties, and entered into an administrative order on consent (AOC) with DSC and CDE for removal of contaminated soil from six properties. Interior dust remediation was completed in April 1998, and removal of PCB-contaminated soil was completed in September 1999.

Because of contamination found on residential properties in 1997, in 1998, EPA expanded its investigation to Delmore Avenue and Hamilton Boulevard near the industrial park. Again, EPA determined that PCBs found in dust and soil posed a potential health concern for residents. EPA cleaned the interiors of eight homes on Delmore Avenue and Hamilton Boulevard, and entered into an AOC with CDE and Dana Corporation (Dana), another PRP, for removal of contaminated soil from seven properties. These removal actions were completed in January 2000, further limiting the potential for exposure until a final remedy could be selected.

In July 1998, EPA included the Site on the NPL.

Enforcement Activities

To date, PRPs identified for the Site and served with notices of liability include DSC, CDE, Dana, Dana Corporation Foundation, and Federal Pacific Electric Company. Five administrative orders have been issued to various PRPs for the performance of portions of removal actions required at the Site. The first order, a Unilateral Administrative Order (UAO) issued to DSC in 1997, required the installation and maintenance of site stabilization measures to limit migration of contaminants from the industrial park. These actions included paving driveways and parking areas in the industrial park to minimize dust, installing a security fence, and implementing drainage controls to limit surface runoff.

In 1998 and 1999, EPA entered into two AOCs with PRPs concerning the removal of PCB-contaminated soil from six properties on Spicer Avenue (referred to by EPA as the "Tier I" properties), and from seven properties on Delmore Avenue and Hamilton Boulevard (referred to by EPA as the "Tier II" properties), respectively (see Appendix I, Figure 2 and 3). DSC and CDE signed the 1998 AOC, and Dana and CDE signed the 1999 AOC. EPA issued another UAO in 1999 to Federal Pacific Electric and DSC, requiring those parties to participate and cooperate in the soil removal at the Tier II properties being performed by Dana and CDE. In April 2000, EPA entered into an AOC with DSC requiring the removal of PCB-contaminated soil from one additional property on Spicer Avenue. DSC agreed to perform the work required under the AOC, but failed to do so. EPA anticipates the soil excavation at this property will be performed later this year.

In July 1998, EPA offered the PRPs an opportunity to perform a comprehensive study of the Site, called a Remedial Investigation and Feasibility Study (RI/FS), to help determine the nature and

extent of contamination. After EPA and the PRPs were unable to agree on the scope of the remedial investigation required at the Site, EPA elected to perform the RI/FS using federal funds.

In 2000, CDE and Dana initiated discussions with the Borough of South Plainfield regarding the potential redevelopment of the Hamilton Industrial Park, and how that redevelopment might be accomplished as part of a remedy for the facility soils and buildings. South Plainfield's redevelopment planning for the facility will be considered by EPA in performing a FS and developing a remedy for OU2, which includes the facility property.

HIGHLIGHTS OF COMMUNITY PARTICIPATION

EPA has worked closely with public officials and other interested members of the community. Their participation and contributions to the site investigation and remediation process have benefitted and continue to benefit the Agency in achieving its goal of effectively protecting human health and the environment.

The Proposed Plan and supporting documentation for OU1 were released to the public for comment on June 16, 2003. These documents were made available to the public at the EPA Administrative Record File Room, 290 Broadway, 18th Floor, New York, New York; and at the South Plainfield Public Library, 2484 Plainfield Avenue, South Plainfield, New Jersey.

The public comment period began on June 16, 2003 and ended on July 16, 2003. On June 16, 2003, EPA published a notice in the Courier-News newspaper containing information concerning the public comment period for the Site, including the duration of the comment period, the date of the public meeting and availability of the administrative record. A second notice was placed in the Observer-Tribune newspaper on June 19, 2003. A public meeting was held on June 23, 2003, at the South Plainfield Municipal Building located at 2480 Plainfield Avenue, South Plainfield, New Jersey. The purpose of this meeting was to inform local officials and interested citizens about the Superfund process, to discuss the Proposed Plan and receive comments on the Proposed Plan, and to respond to questions from area residents and other interested parties. Responses to the comments received at the public meeting and in writing during the public comment period are included in the Responsiveness Summary, attached as Appendix V to this ROD.

SCOPE AND ROLE OF THIS OPERABLE UNIT

To expedite the cleanup of the CDE Site, EPA has divided the Site into remedial action phases or operable units (OUs). OU1 addresses PCB-contaminated soil and interior dust on residential, commercial, and municipal properties located in the vicinity of the former CDE facility. EPA's remedial investigations of the industrial park soil and building contamination, the groundwater, and sediment contamination in the Bound Brook are ongoing, and future operable units will address other contamination problems posed by the Site. A second operable unit (OU2) is planned to address the contaminated soils and buildings at the former CDE facility, and a third and final operable unit (OU3) will address contaminated groundwater from the site, and contaminated sediments of the Bound Brook.

SUMMARY OF SITE CHARACTERISTICS

Sampling Approach

Soil samples collected during the RI from the residential, commercial, and municipal properties in the vicinity of the CDE facility were analyzed for PCBs. PCBs were identified as the contaminant of concern in previous investigations that started in 1994. PCBs were analyzed using EPA's standard sampling methodology that identifies PCBs in the environment as Aroclors. "Aroclor" is the trade name given to commercially manufactured mixtures of PCBs. The different mixtures are identified with a four digit number (e.g., Aroclor-1254). Aroclors were chosen for evaluation because they were used in the former manufacturing processes at the CDE facility and are bioaccumulative and persistent in the environment. The Aroclors detected at the properties in the vicinity of the CDE facility are Aroclor-1254 and Aroclor-1260. The range of detected concentrations for the chemicals of concern (COC) and frequency of detection (i.e., the number of times the chemical was detected in the samples collected) for select properties during the RI are presented in Appendix II, Table 2.

EPA's August 1990 guidance, entitled "Guidance on Remedial Actions at Superfund Sites with PCB Contamination", recommends a cleanup goal of 1 ppm for unrestricted residential land use. During the RI and earlier studies, 1 ppm was used as a soil screening value and is the Remediation Goal for the Site. The State of New Jersey has developed a residential direct contact soil cleanup criterion (RDCSCC) for PCBs of 0.49 ppm. Results from the RI that exceeded the State's RDCSCC were also reported.

During the summer of 2000, EPA collected samples at 807 locations as part of the OU1 RI. When the earlier removal investigations are also considered, EPA's sampling program surveyed an area covering approximately 135 acres. During the RI, EPA also targeted a group of 19 residential, commercial, and municipal properties in the vicinity of the CDE facility for extensive surface and subsurface PCB testing. Some of these 19 properties were in areas where previous testing had indicated a higher likelihood of finding elevated PCB levels, while others were in areas further from the facility, where no elevated PCB levels were anticipated.

In addition, EPA collected samples along the curbside right-of-ways (generally, the two feet of property adjacent to the curb) in areas around the CDE facility to provide a broader scope to the investigation and identify PCB distribution trends that would not be found by sampling only individual properties. The curbside sampling was performed along 13 roadways in the vicinity of the CDE facility, including curbside right-of-ways within the Bound Brook flood plain, located downstream (northwest) of the CDE facility.

Furthermore, during the earlier removal investigations, EPA collected curbside samples from properties along Delmore, Arlington, Hancock and Belmont Avenues (referred to by EPA as the "Tier III" properties). The Tier III curbside sampling survey consisted of 74 surface soil samples.

The soil remedial investigation indicated the following:

Surface Contamination

- Of the 807 samples collected during the RI, 630 were surface soil samples collected within the first few inches of the ground surface. PCB concentrations ranged from non-detect to 57 ppm. Of these 630 samples, 20 samples exceeded 1 ppm total PCBs.
- Of the 74 Tier III surface soil samples collected prior to the start of the RI, PCB concentrations ranged from 0.022 ppm to 2.9 ppm. Of these 74 samples, 9 samples exceeded 1 ppm total PCBs.

Subsurface Contamination

- Of the 177 subsurface soil samples from the RI (collected at 16 to 18 inches below ground surface), 5 samples exceeded 1 ppm total PCBs. Concentrations in three of the five samples

had an average of 1.3 ppm; the other two samples had concentrations of 44 ppm and 310 ppm.

Results from the 19 Targeted Properties

- Of the 807 RI samples, 411 were collected on these 19 properties. Eighteen of the 25 RI samples found to contain concentrations of PCBs in excess of 1 ppm were collected during this phase of the investigation. Of the 19 properties surveyed (approximately 20 samples per property, both surface and subsurface), only three properties were identified with elevated levels of PCBs.

Results from the Curbside Right-of-Way Sampling

- Of the 807 RI samples, 396 were collected during the curbside right-of-way sampling. Seven of the 25 RI samples found to contain concentrations of PCBs in excess of 1 ppm were collected during this phase of the investigation. The curbside sampling results indicated more frequent detections on blocks nearer the CDE facility and on high-traffic streets like Hamilton Boulevard and New Market Avenue. These data trends support a pattern of wind-blown or vehicle-carried contamination from the facility.

Bound Brook Floodplain Property Sampling

- Of the 807 RI samples, 174 were collected from residential properties and public curbside right-of-ways within the Bound Brook floodplain, located downstream (northwest) of the CDE facility (please refer to Appendix I, Figure 1). None of the 174 surface and subsurface soil samples collected in this area exceeded 1 ppm total PCBs.

Additional Data Needs

The majority of the PCB measurements detected during the RI were in the surface samples, collected in the first few inches of soil. EPA analyzed data from the RI and the earlier removal investigations, and has targeted at least 59 properties where additional soil sampling is called for. Figure 4 (see Appendix I) illustrates the RI study area and where additional testing is necessary. Figure 5 identifies the properties where additional testing is necessary because the curbside right-of-way sampling results exceeded EPA's Remediation Goal of 1 ppm and New Jersey's RDCSCC of 0.49 ppm. Based upon EPA's experience with the testing performed to date, EPA has conservatively estimated that

approximately 12 properties may be identified with at least some PCB levels exceeding EPA's Remediation Goal.

During earlier removal activities, PCBs were measured in residential indoor dust. The dust measurements were sporadic in nature and not necessarily correlated with higher levels of PCBs in surface soils; and unlike the soil sampling analysis described above, EPA has not identified a pattern to the indoor dust measurements. Nevertheless, additional indoor dust testing for PCBs is called for, to ensure that PCBs are not present at elevated concentrations. EPA anticipates that the dust sampling will be performed on a subset of the 59 properties identified for soil sampling. EPA has conservatively estimated that up to seven additional properties may be identified with elevated PCBs in indoor dust during these expanded property investigations. Indoor dust remediation will be performed where PCB-contaminated dust is encountered at levels in excess of EPA's Remediation Goal of 1 ppm.

It should be noted that the number of properties described herein as containing elevated levels of PCBs is based on an estimate developed by EPA to calculate the approximate costs of the cleanup alternatives. The precise number of properties that will require either soil remediation or interior cleaning under the Selected Remedy will be determined upon the completion of the additional sampling required as part of the OU1 remedy.

CURRENT AND POTENTIAL FUTURE SITE AND RESOURCE USES

Site Uses: Currently, the properties in the vicinity of the CDE facility are divided into two land uses: residential and commercial. Based upon discussions with the Borough of South Plainfield, EPA does not expect the zoning of these properties to change in the near future. In December 2001, the Borough of South Plainfield adopted a resolution designating the Hamilton Industrial Park (OU2) and certain properties in the vicinity of the industrial park as a "Redevelopment Area" pursuant to the New Jersey Local Redevelopment and Housing Law. South Plainfield retained a planning consultant to prepare a redevelopment plan for the designated area, and on July 15, 2002, the Borough of South Plainfield approved the redevelopment plan. The redevelopment plan does not require re-zoning of the properties that are part of OU1.

Resource Uses: No wetlands are associated with these properties. Groundwater and surface water in the area are both current and potential future sources of drinking water. The groundwater beneath the Site is classified by NJDEP as Class IIA, and potable

water wells for the Middlesex Water Company and the Elizabethtown Water Company facility are located within four miles of the Site. EPA is currently evaluating the potential for the Site to adversely impact the groundwater. Groundwater will be addressed in a subsequent OU3 for the Site.

SUMMARY OF SITE RISKS

As part of the RI/FS, EPA conducted a baseline risk assessment to estimate the current and future effects of contaminants on human health and the environment. A baseline risk assessment is an analysis of the potential adverse human health and ecological effects of releases of hazardous substance from a site in the absence of any actions or controls to mitigate such releases, under current and future land uses. The baseline risk assessment includes a human health risk assessment and an ecological risk assessment.

Human Health Risk Assessment

A four-step process is utilized for assessing site-related human health risks for a reasonable maximum exposure scenario:

- 1) *Hazard Identification* - identifies the contaminants of concern at the Site based on several factors such as toxicity, frequency of occurrence, and concentration.
- 2) *Exposure Assessment* - estimates the magnitude of actual and/or potential human exposures, the frequency and duration of these exposures, and the pathways (e.g., ingesting contaminated well-water) by which humans are potentially exposed.
- 3) *Toxicity Assessment* - determines the types of adverse health effects associated with chemical exposures, and the relationship between magnitude of exposure (dose) and severity of adverse effects (response).
- 4) *Risk Characterization* - summarizes and combines outputs of the exposure and toxicity assessments to provide a quantitative assessment of site-related risks.

Hazard Identification

EPA has promulgated requirements for the management of PCB wastes as directed by Toxic Substances Control Act (TSCA), and these TSCA requirements are applicable to the management of PCB contamination at this Site. These requirements provide a risk-based approach for managing PCB wastes. Consistent with this risk-based approach and Superfund risk assessment guidance, EPA conducted a baseline human health risk assessment (BHHRA), as part of the RI/FS, for residential, commercial, and municipal

properties in the vicinity of the CDE facility to determine the current and future effects of PCBs on human health.

For known or suspected carcinogens, EPA has established an acceptable cancer risk range of one-in-a million (1×10^{-6}) to one-in-ten thousand (1×10^{-4}). Action is generally warranted when excess lifetime cancer risk exceeds one-in-ten thousand. In other words, for every 10,000 people exposed under the assumptions used in the risk assessment, one additional cancer may occur as a result of exposure to the PCB-contaminated soils.

PCBs were identified as the contaminant of concern for the OUI properties. The Aroclors detected at the properties in the vicinity of the CDE facility are Aroclor-1254 and Aroclor-1260. The range of detected concentrations for the chemicals of concern (COC) and frequency of detection (i.e., the number of times the chemical was detected in the samples collected) for the four properties where elevated levels were found and for the right-of-ways sampled during the RI are presented in Appendix II, Table 2. Table 2 also presents the exposure point concentrations for PCBs at the individual properties in surface and subsurface soil (i.e., the concentration that will be used to estimate the exposure and risk from each COC in the soil). The 95% Upper Confidence Level (UCL) on the arithmetic mean was used as the EPC for Aroclor 1254 and 1260 for the majority of properties.

Exposure Assessment

Consistent with Superfund policy and guidance, the BHHRA is a baseline risk assessment and therefore assumes no remediation to control or mitigate hazardous substance releases and no institutional controls. Cancer risks and non-cancer hazard indices were calculated based on an estimate of the reasonable maximum exposure (RME) expected to occur under current and future conditions at the individual properties. The RME is defined as the highest exposure that is reasonably expected to occur at a site. EPA also estimated cancer risks and non-cancer hazard indices based on central tendency (CT), or average, exposures at the individual properties.

The CDE facility is bounded by residential, commercial, and municipal properties. Based on the identified current and potential future land uses, the current populations most likely to be at risk of exposure are residents and commercial/municipal workers. Residential land use is most often associated with the greatest exposures based on frequency and duration that could result from current and future ingestion and direct contact with contaminated surface and subsurface soil. Therefore, the

baseline risk assessment focused on health effects under the residential land use scenario, even though there are residential, commercial, and municipal properties under evaluation (Appendix II, Table 1). Evaluating a residential scenario was considered "reasonable maximum exposure," and therefore most protective of human health.

The baseline risk assessment focused on health effects for both young children (up to 6 years old) and adults, in a residential setting, that could result from current and future direct contact with contaminated soil, such as incidental ingestion and dermal contact. Surface soil, and subsurface soil were examined to determine the cancer risk and non-cancer health hazards associated with exposure to PCBs on each of the properties sampled. Standard default residential exposure assumptions were used in the exposure assessment. Risks associated with exposure to PCB-contaminated interior dust, while not specifically evaluated, would be expected to be equivalent to those associated with surface soil.

Toxicity Assessment

The toxicity assessment determines the types of adverse health effects associated with PCB exposures and the relationship between the magnitude of exposure (dose) and severity of adverse effects (response). PCBs have been identified by EPA as a probable human (Group B2, or likely to cause cancer in humans) carcinogen. Other non-cancer health effects, such as changes in the normal functions of organs within the body (e.g., changes in the effectiveness of the immune system), are also associated with PCB exposure based on animal studies.

Toxicity data for the human health risk assessment were provided by the Integrated Risk Information System (IRIS) database. This information is presented in Appendix II, Table 3 (cancer toxicity data summary) and Table 4 (non-cancer toxicity data summary).

Risk Characterization

The baseline risk assessment estimates the potential risk and hazards to human health if no remedial action occurs. A more detailed discussion of the baseline risk assessment can be found in Section 6 of the RI.

For carcinogens, risks are generally expressed as the incremental probability of an individual developing cancer over a lifetime as

a result of exposure to a carcinogen. Excess lifetime cancer risk is calculated from the following equation:

$$\text{Risk} = \text{LADD} \times \text{SF}$$

where: **Risk** = a unitless probability (1×10^{-4}) of an individual's developing cancer

LADD = lifetime average daily dose averaged over 70 years (mg/kg-day)

SF = slope factor, expressed as (mg/kg-day)⁻¹

These risks are probabilities that usually are expressed in scientific notation (such as 1×10^{-4}). An excess lifetime cancer risk of 1×10^{-4} indicates that one additional incidence of cancer may occur in a population of 10,000 people who are exposed under the conditions identified in the assessment. As stated in the NCP, the acceptable risk range for site-related exposures is 10^{-4} to 10^{-6} .

Results of the risk assessment indicate that the cancer risk estimates for the young child residents were above the risk range at one property (2×10^{-4}). For the adult, the cancer risks did not exceed the risk range of 1×10^{-4} . This information is presented in Appendix II, Table 5. The CTE calculated risks are presented in Appendix II, Table 6.

The potential for noncarcinogenic effects is evaluated by comparing an exposure level over a chronic time period, such as a 30-year period of exposure or more, with a reference dose (RfD) derived for a similar exposure period. An RfD represents a level that an individual may be exposed to that is not expected to cause any deleterious health effect. The ratio of the exposure dose to the reference dose is called a hazard quotient (HQ). An HQ of less than or equal to 1 indicates that the exposure dose is less than or equal to the reference dose, and that noncarcinogenic health effects are unlikely to occur. The hazard index (HI) for an exposure pathway is generated by summing the HQs for all chemicals of concern for a singular pathway. An HI of less than or equal to 1 indicates that noncarcinogenic health effects are unlikely to occur. An HI of greater than 1 indicates the likelihood that site-related exposures may result in noncarcinogenic health effects.

The HQ is calculated as follows:

$$HQ = CDI/RfD$$

where: HQ = hazard quotient
 CDI = chronic daily intake (mg/kg-day)
 RfD = reference dose (mg/kg-day)

The CDI and the RfD will represent the same exposure period (i.e., chronic, subchronic, or acute).

In the evaluation of non-cancer human health hazards, EPA found that four properties exceeded EPA's target hazard index of 1. The hazard indices were 1.5, 2, 14, and 36 for a young child, and less than 1, less than 1, 2, and 4 for an adult, respectively, at the four individual properties. This information is presented in Appendix II, Table 7 and 8. These cancer risks and non-cancer hazards indicate that there is a potential cancer risk and non-cancer health hazard to young children and adults from direct exposure to contaminated surface and subsurface soil at these four properties. These risk estimates are based on current reasonable maximum exposure scenarios and were developed by taking into account various conservative assumptions about the frequency and duration of an individual's exposure to the surface and subsurface soils, as well as the toxicity of PCBs. As stated above, risks associated with exposure to PCB-contaminated interior dust, while not specifically evaluated, would be expected to be equivalent to those associated with surface soil.

Based on these risk estimates driven by the presence of PCBs in soils, the response action selected in this ROD is necessary to protect human health or welfare or the environment from actual or threatened releases of hazardous substances into the environment.

Uncertainties

The procedures and inputs used to assess risks in this evaluation, as in all such assessments, are subject to a wide variety of uncertainties. In general, the main sources of uncertainty include:

- environmental chemistry sampling and analysis
- environmental parameter measurement
- fate and transport modeling
- exposure parameter estimation
- toxicological data.

Uncertainty in environmental sampling arises in part from the potentially uneven distribution of chemicals in the media

sampled. Consequently, there is significant uncertainty as to the actual levels present. Environmental chemistry analysis error can stem from several sources including the errors inherent in the analytical methods and characteristics of the matrix being sampled.

Uncertainties in the exposure assessment are related to estimates of how often an individual would actually come in contact with the chemicals of concern, the period of time over which such exposure would occur, and in the models used to estimate the concentrations of the chemicals of concern at the point of exposure.

Uncertainties in toxicological data occur in extrapolating both from animals to humans and from high to low doses of exposure, as well as in the difficulties of assessing the toxicity of a mixture of chemicals. These uncertainties are addressed by making conservative assumptions concerning risk and exposure parameters throughout the assessment. As a result, the risk assessment provides upper-bound estimates of the risks to populations near the Site, and is highly unlikely to underestimate actual risks related to the Site.

More specific information concerning public health risks, including a quantitative evaluation of the degree of risk associated with various exposure pathways, is presented in the risk assessment report, which is part of the administrative record for the Site.

Ecological Risk Assessment

A four-step process is utilized for assessing site-related ecological risks for a reasonable maximum exposure scenario:

- 1) *Problem Formulation* - a qualitative evaluation of contaminant release, migration, and fate; identification of contaminants of concern, receptors, exposure pathways, and known ecological effects of the contaminants; and selection of endpoints for further study.
- 2) *Exposure Assessment* - a quantitative evaluation of contaminant release, migration, and fate; characterization of exposure pathways and receptors; and measurement or estimation of exposure point concentrations.
- 3) *Ecological Effects Assessment* - literature reviews, field studies, and toxicity tests, linking contaminant concentrations to effects on ecological receptors.

4) *Risk Characterization* - measurement or estimation of both current and future adverse effects.

An ecological risk assessment (ERA) was performed for the surface soils at properties in the vicinity of the CDE facility. The objective of the ERA was to assess potential risks to terrestrial receptors from contaminants found on these properties. Based on the ERA, PCB-contaminated soils at these properties represent low potential risks to wildlife species, due to the lack of significant habitat at most of the properties. An ERA for the CDE facility and for surface water and associated wetlands is being conducted as part of the later operable units (OU2 and OU3) that include these elements.

REMEDIAL ACTION OBJECTIVES

Remedial Action Objectives are specific goals to protect human health and the environment. These objectives are based on available information and standards such as applicable or relevant and appropriate requirements (ARARs) and risk-based levels established in the risk assessment.

The following remedial action objectives for contaminated soil and indoor dust will address the human health risks and environmental concerns at residential, commercial, and municipal properties in the vicinity of the CDE facility:

- reduce or eliminate the direct contact threat associated with contaminated soil and indoor dust to levels protective of current land use and considering the future residential use; and

- prevent exposure and minimize disturbance to the surrounding community of South Plainfield, during implementation of the remedial action.

EPA is using 1 ppm as its Remediation Goal for this action. The State of New Jersey has developed a RDCSCC for PCBs of 0.49 ppm. Because this is not a promulgated standard, it is not an ARAR but rather a "To Be Considered" (TBC) criterion.

Based on the data collected to date, EPA believes that in meeting EPA's Remediation Goal for PCBs, the Selected Remedy may also achieve the State's RDCSCC. If the Selected Remedy does not achieve the RDCSCC at some properties, the State may elect to pursue additional soil removal, or may require that restrictions be placed on properties to prevent future direct contact with soils above 0.49 ppm.

Based upon investigations performed to date, four properties have been identified that would require remediation: three properties that were identified in the RI investigation, and one property that was identified during an earlier removal action investigation. This last property did not require an immediate response under EPA's removal action authority, but will be addressed under this final remedy. The locations of the four properties that would require remediation are identified in Appendix II, Figure 4. The properties include a single-family home, an automotive repair station, a construction company office, and a former day care center. EPA has conservatively estimated that, after additional sampling is performed on an estimated 59 properties (as discussed in the Summary of Site Characteristics Section, above) up to 12 additional properties (beyond the four already identified) may require remediation. In addition, a re-evaluation of the soil removal actions already conducted at 13 residential properties will be necessary, to insure that those actions satisfy the remedial action objectives established here.

Indoor dust remediation may also be required to meet the remedial action objectives, if PCB-contaminated dust is encountered in excess of EPA's Remediation Goal of 1 ppm for PCBs. The additional sampling described above will also evaluate indoor dust.

DESCRIPTION OF REMEDIAL ALTERNATIVES

CERCLA requires that each remedial alternative be protective of human health and the environment, be cost effective, comply with other statutory laws, and utilize permanent solutions and alternative treatment technologies and resource recovery technologies to the maximum extent practicable. In addition, CERCLA includes a preference for the use of treatment as a principal element for the reduction of toxicity, mobility or volume of hazardous substances.

CERCLA requires that if a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at a site above levels that allow for unlimited use and unrestricted exposure, EPA must review the action no less often than every five years after initiation of the action. In addition, institutional controls (e.g., a deed notice, an easement or a covenant) to limit the use of portions of the property may be required. These use restrictions are discussed in each alternative as appropriate. The type of restriction and enforceability will need to be determined after completion of the remedial alternative selected in the ROD. Consistent with

expectations set out in the NCP, none of the remedies rely exclusively on institutional controls to achieve protectiveness. The time frames below for construction do not include the time for remedial design or the time to procure contracts.

The remedial alternatives evaluated for OU1 were limited for several reasons. The affected properties are primarily located in a well-established residential neighborhood, and space is limited; consequently, on-site remedies that involve treatment or containment (such as creating a disposal cell for the soil in the area) were not considered. In addition, since no principal threat wastes are associated with OU1 and the contaminant concentrations are relatively low, utilizing treatment of the contaminated soil as a principal element was not a focus of any of the alternatives developed for OU1.

The remedial alternatives require an investigation of additional properties in the study area, during the remedial design, to determine if additional properties require remediation. The additional sampling would typically be performed on properties where previous curbside sampling exceeded EPA's Remediation Goal of 1 ppm and New Jersey's RDCSCC of 0.49 ppm. The sampling would include exterior soils and the collection of dust samples from the interior of homes. The sampling would be performed in accordance with NJDEP requirements, including the sampling protocols identified in N.J.A.C. 7:26E. Based on the investigations performed to date, EPA has targeted at least 59 properties where additional soil and interior dust sampling is called for. The active remedial alternatives also call for a re-evaluation of the 13 residential properties where removal actions have already been performed, to ensure that those cleanups are consistent with the remediation goals established for OU1.

The active remedial alternatives require an expanded Cultural Resources evaluation, including activities to complete a Stage IA investigation for OU1, and further work needed based on the results and recommendations of the Stage IA investigation. This work would be completed before any remedial actions are implemented for OU1.

Remedial alternatives for OU1 soils and indoor dust are presented below:

Alternative 1: No Action

Capital Cost:	\$0
Annual Operation and Maintenance (O&M):	\$0
Present Worth:	\$0
Estimated Construction	
Time frame:	not applicable

Superfund regulations require that the "No Action" alternative be evaluated at every site to establish a baseline for comparison with other remedial alternatives. Under the alternative, EPA would take no action at these properties to prevent exposure to the soil and indoor dust contamination, and the contaminated soil and indoor dust would be left in place. Because no action results in contaminated soil and indoor dust remaining in place above acceptable levels with no means of controls, a review of the Site at least every five years would be required.

Alternative 2: Limited Action: Engineering and Institutional Controls

Capital Cost:	\$520,000
Annual Operation and Maintenance (O&M):	\$20,000
Present Worth:	\$770,000
Estimated Construction	
Time frame:	3 to 6 months

The Limited Action alternative would provide engineering and institutional controls to prevent exposure to PCB-contaminated soils. Capping would be performed to minimize exposure to PCB-contaminated soil. The areas to be capped for each property would limit exposure to PCBs at concentrations greater than 1 ppm. Controls would also include implementation of deed notices or restrictions to limit future use of the properties, implementation of public awareness programs, and five-year reviews to assess the need for future remedial actions.

Sealing or other engineering controls to prevent direct contact or inhalation of PCB-contaminated indoor dust is not feasible in a residential setting. Therefore, this alternative would include indoor dust remediation where PCB-contaminated dust is encountered above the Remediation Goal of 1 ppm. Temporary relocation of residents during the cleaning may be appropriate in some cases, where necessary to ensure the health or safety of residents, or to allow cleanup activities to proceed. The cleaning procedures to be employed would consist of: wiping down all horizontal exposed surfaces; vacuuming floors, drapes,

upholstery, molding and window casings using HEPA vacuums; washing all tile, linoleum and wood floors; steam cleaning or replacing carpets and area rugs; cleaning heating and cooling ducts; and cleaning or replacing all filters on air handling equipment.

Post-cleaning indoor dust samples would be collected to determine the effectiveness of the cleaning.

Because PCB-contaminated soil would be left in place as part of Alternative 2, review of the remedy every five years would be required.

Alternative 3: Excavation; Off-Site Disposal with Treatment

Capital Cost:	\$760,000
Annual Operation and Maintenance (O&M):	\$0
Present Worth:	\$760,000
Estimated Construction Time frame:	12 months

This alternative includes the excavation of an estimated 2,100 cubic yards of PCB-contaminated soil and off-site disposal at a Resource Conservation and Recovery Act (RCRA) or TSCA regulated landfill, as appropriate, based on the concentrations of PCBs in the excavated soils. Under this alternative, PCB-contaminated soil found at properties in excess of the Remediation Goal would be excavated for off-site disposal. If necessary, in order to meet the requirements of the disposal facilities, treatment of the soil may be performed using any of the technologies identified in the Feasibility Study. Once excavation activities have been completed at each property, clean soil would be used as backfill.

For cost-estimating purposes, the FS conservatively assumed that 16 properties would require soil excavation (4 already identified, plus 12 identified through new investigations), and an estimated 2,100 cubic yards of contaminated soil would be excavated from properties requiring soil cleanup.

As described in Alternative 2, this alternative would also include indoor dust remediation where PCB-contaminated dust is encountered above the Remediation Goal, and temporary relocation of residents in some cases, if necessary to ensure the health or safety of residents, or to allow cleanup activities to proceed.

COMPARATIVE ANALYSIS OF ALTERNATIVES

In selecting the remedies, EPA considered the factors set out in CERCLA Section 121, 42 U.S.C. § 9621, by conducting a detailed analysis of the viable remedial alternatives pursuant to the NCP, 40 CFR § 300.430(e)(9) and OSWER Directive 9355.3-01. The detailed analysis consisted of an assessment of the individual alternatives against each of nine evaluation criteria and a comparative analysis focusing upon the relative performance of each alternative against those criteria.

Threshold Criteria - The first two criteria are known as "threshold criteria" because they are the minimum requirements that each response measure must meet in order to be eligible for selection as a remedy.

1. Overall Protection of Human Health and the Environment

Overall protection of human health and the environment addresses whether or not a remedy provides adequate protection and describes how risks posed through each exposure pathway (based on a reasonable maximum exposure scenario) are eliminated, reduced, or controlled through treatment, engineering controls, or institutional controls.

Alternative 1, the no action alternative, is not protective of human health and the environment because it does not eliminate, reduce, or control risk of exposure to PCBs in soil or indoor dust through off-site disposal, treatment, engineering controls, and/or institutional controls.

Alternative 2 would provide some protection to property owners/occupants from future exposure to contaminated soils and indoor dust, through the placement of cover material over PCB-contaminated soils, through indoor dust remediation where necessary, and through institutional controls such as land use restrictions and public education. However, contaminated soils would remain in place above the Remediation Goal.

Alternative 3, excavation and off-site disposal, would remove soil and indoor dust with PCB concentrations above the Remediation Goal and, therefore, would protect both human and environmental receptors from contact with contaminants in the soil and, for human receptors, indoor dust.

There would be no local human health or environmental impacts associated with off-site disposal because the contaminants would be removed from the Site to a secure location. Alternative 3

would eliminate the actual or potential exposure of residents to contaminated soils and/or indoor dust.

2. Compliance with applicable or relevant and appropriate requirements (ARARs)

Section 121(d) of CERCLA, 42 U.S.C. § 9621(d), and 40 CFR § 300.430(f)(1)(ii)(B) require that remedial actions at CERCLA sites at least attain legally applicable or relevant and appropriate Federal laws and State environmental or facility siting laws, collectively referred to as "ARARs", unless such ARARs are waived under CERCLA Section 121(d)(4).

Applicable requirements are those cleanup standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under Federal environmental or State environmental or facility siting laws that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance found at a CERCLA site. Only those State standards that are identified by a state in a timely manner and that are more stringent than Federal requirements may be applicable. Relevant and appropriate requirements are those cleanup standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under Federal environmental or State environmental or facility siting laws that, while not "applicable" to a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a CERCLA site, address problems or situations sufficiently similar to those encountered at the CERCLA site that their use is well-suited to the particular site. Only those State standards that are identified in a timely manner and are more stringent than Federal requirements may be relevant and appropriate.

Compliance with ARARs addresses whether a remedy will meet all of the applicable or relevant and appropriate requirements of other Federal and State environmental statutes or provides a basis for a invoking waiver.

Alternative 1 Since action-specific ARARs apply to actions taken, they are not applicable to the no action alternative. EPA has determined that there are no chemical-specific or location-specific ARARs for OU1.

Alternatives 2 and 3 would comply with action-specific ARARs. Among the major ARARs applicable to the remedial action for OU1, RCRA and TSCA are federal laws that mandate procedures for managing, treating, transporting, storing, and disposing of hazardous substances. All portions of RCRA and TSCA that are

applicable or relevant and appropriate to an OUI response action would be met by Alternatives 2 and 3.

There are no chemical-specific ARARs for the contaminated soils. EPA has selected a Remediation Goal of 1 ppm for use in Alternatives 2 and 3. The State of New Jersey has developed a residential soil cleanup criterion for PCBs of 0.49 ppm, which is a TBC criterion. On properties where the State criterion is not achieved, NJDEP may elect to take additional actions to meet its more stringent criterion.

Alternatives 2 and 3 require an expanded Cultural Resources evaluation, including activities to complete a Stage IA investigation for OUI, and further work needed based on the results and recommendations of the Stage IA investigation. This work would be completed before any remedial actions are implemented for OUI.

Primary Balancing Criteria - The next five criteria are known as "primary balancing criteria". These criteria are factors with which tradeoffs between response measures are assessed so that the best option will be chosen, given site-specific data and conditions.

3. Long-term Effectiveness and Permanence

Long-term effectiveness and permanence refers to the ability of a remedy to maintain reliable protection of human health and the environment over time, once cleanup goals have been met. It also addresses the magnitude and effectiveness of the measures that may be required to manage the risk posed by treatment residuals and/or untreated wastes.

Alternative 1 offers no long-term effectiveness and permanence.

Alternative 2 would not be permanent or as effective over the long term, since contaminated soil would remain at the Site with concentrations above the Remediation Goal, and institutional controls might not reliably reduce future health risks to property owners and/or occupants associated with exposure to contaminated surface soils.

With Alternative 3, long-term risks would be removed, since contaminated soils and indoor dust would be permanently removed. Off-site treatment, where necessary, and disposal at a secure, permitted hazardous waste facility for the contaminated soil is reliable because the design of such facilities includes safeguards and would ensure the reliability of the technology and the security of the waste material.

4. Reduction of Toxicity, Mobility, or Volume of Contaminants through Treatment

Reduction of toxicity, mobility, or volume through treatment refers to a remedial technology's expected ability to reduce the toxicity, mobility, or volume of hazardous substances, pollutants or contaminants at the site.

Alternative 1 would not reduce the toxicity, mobility or volume of contaminated soil or indoor dust, since the soil and indoor dust would remain in place.

Alternative 2 would reduce the mobility of the soil contaminants through capping, but would not reduce the volume or toxicity. Alternative 2 would reduce the mobility and volume of dust through indoor dust remediation where PCB-contaminated dust is encountered.

Alternative 3 would reduce contaminant mobility through removal and disposal of the soils at an approved off-site disposal facility. Furthermore, off-site treatment, when required, would reduce the toxicity and volume of the contaminated soils prior to land disposal. Soils with PCB concentrations less than 50 ppm would be excavated and transported to a RCRA landfill permitted to accept low levels of PCB waste. Soils with PCB concentrations between 50 and 500 ppm would be excavated and transported to a TSCA landfill without treatment. It is anticipated that hazardous material would not be destroyed under Alternative 3, unless the disposal facility required treatment prior to landfilling.

Alternative 3, like Alternative 2, would reduce the mobility and volume of dust through indoor dust remediation where PCB-contaminated dust is encountered.

5. Short-term Effectiveness

Short-term effectiveness addresses short-term risks to the community, workers and the environment during the construction and implementation of the remedial alternatives, and the effectiveness and reliability of protective and mitigative measures.

Alternative 1, the no action alternative, poses no short-term risks.

Alternative 2 would be completed in approximately three to six months. Minimal impacts would be expected for Alternative 2 since contaminated soils would not be significantly disturbed during cap construction.

Alternative 3 presents a higher short-term risk because of the greater potential for exposure associated with excavation and transportation of contaminated soils. Alternative 3 would also cause an increase in truck traffic, noise and potentially dust in the surrounding community, as well as potential impacts to workers during the performance of the work. These potential impacts would be created through construction activities and exposure to the contaminated soil being excavated and handled. However, proven protective and mitigative procedures including engineering controls, personal protective equipment and safe work practices would be used to address potential impacts to workers and the community. For example, the work would be scheduled to coincide with normal working hours (e.g., 8 a.m. to 5 p.m. on week days and no work on weekends or holidays). In addition, trucking routes with the least disruption to the surrounding community would be utilized. Appropriate transportation safety measures would be required during the shipping of the contaminated soil to the off-site disposal facility.

The risk of release during implementation of Alternatives 2 and 3 is principally limited to wind-blown soil transport or surface water run-off. Any potential environmental impacts associated with dust and runoff would be minimized by proper installation and implementation of dust and erosion control measures and by performing the excavation and off-site disposal with appropriate health and safety measures to limit the amount of material that may migrate to a potential receptor.

For both Alternative 2 and Alternative 3, short-term effectiveness during the indoor dust remediation would be provided by temporary relocation of affected residents when and if EPA determines it to be necessary to ensure the health or safety of residents or when it is needed to physically allow cleanup activities to be conducted.

Alternative 3 is estimated to take about 12 months to implement. This schedule does not take into account the performance of the additional property investigations, to identify other contaminated properties, which would be required under Alternative 2 and Alternative 3. These investigations would be performed during remedial design, and could add up to one year to the typical remedial design time frame of 15 to 18 months; however, the additional investigative work can be performed concurrently with remediation of the known contaminated properties to streamline the schedule.

6. Implementability

Implementability addresses the technical and administrative feasibility of a remedy from design through construction and operation. Factors such as availability of services and materials, administrative feasibility, and coordination with other governmental entities are considered.

Alternative 1 requires no implementation.

Alternatives 2 and 3 can be implemented using conventional equipment and services that are readily available. The personnel required to operate the heavy equipment would require appropriate Occupational Safety and Health Administration (OSHA) certifications (e.g., hazardous waste worker), in addition to being certified in the operation of heavy equipment. Such individuals are readily available. Off-site hazardous and non-hazardous treatment/disposal facilities for the disposal of the contaminated soils are available, so disposal would be feasible.

Alternative 2 would, however, require the imposition of engineering and institutional controls to ensure adequate protection of human health and the environment. The development of protective engineering and institutional controls that would be permanent, enforceable and acceptable to the private property owners cannot be assured.

7. Cost

Includes estimated capital and operation and maintenance costs, and net present-worth values.

The cost of Alternative 1 is \$0.

The estimated present worth cost of Alternative 2 is \$770,000, which includes operational and maintenance costs over a 30-year period.

The estimated present worth cost of Alternative 3 is \$760,000.

Modifying Criteria - The final two evaluating criteria, criteria 8 and 9, are called "modifying criteria" because new information or comments from the state or the community on the Proposed Plan may lead to modification of the preferred response measure or cause another response measure to be considered.

8. State Acceptance

State acceptance indicates whether, based on its review of the RI/FS reports and the Proposed Plan, the state supports, opposes,

and/or has identified any reservations with the selected response measure.

The State of New Jersey does not concur with EPA's Remediation Goal of 1 ppm. However, the State of New Jersey otherwise agrees with the actions to be taken under the selected remedy.

9. Community Acceptance

Community acceptance summarizes the public's general response to the response measures described in the Proposed Plan and the RI/FS reports. This assessment includes determining which of the response measures the community supports, opposes, and/or has reservations about.

EPA solicited input from the community on the remedial alternatives proposed for OU1 at the Cornell-Dubilier Electronics Site. The attached Responsiveness Summary addresses the comments received during the public comment period. The community was generally supportive of EPA's Proposed Plan.

PRINCIPAL THREAT WASTE

EPA's findings to date indicate the presence of "principal threat" wastes at the former CDE facility property to be addressed in OU2, but no principal threat wastes were identified at the OU1 residential, commercial, and municipal properties. Principal threat wastes are considered source materials, i.e., materials that include or contain hazardous substances, pollutants or contaminants that act as a reservoir for migration of contamination to groundwater, surface water, or as a source for direct exposure.

SELECTED REMEDY

Based upon consideration of the results of the site investigations, the requirements of CERCLA, the detailed analysis of the response measures, and public comments, EPA has determined that Alternative 3 is the appropriate remedy for the Site, because it best satisfies the requirements of CERCLA Section 121 and the NCP's nine evaluation criteria for remedial alternatives, 40 CFR § 300.430(e)(9). The major components of the Selected Remedy include:

- excavation of an estimated 2,100 cubic yards of contaminated soil from approximately 16 properties, backfilling with clean fill, and property restoration as necessary;

- transportation of the contaminated soil off the site for disposal, with treatment as necessary;
- indoor dust remediation where PCB-contaminated dust is encountered; and,
- where necessary, temporary relocation of residents during the indoor remediation.

EPA's studies to date have identified four properties where actions need to be taken, and a study area of approximately 59 properties that require expanded soil and interior dust sampling to determine if additional properties require remediation. EPA has estimated that this expanded investigation may identify as many as 12 additional properties, and the Selected Remedy takes into account the likelihood that some of these properties will require some degree of remedial response. The Selected Remedy will be the final remedy for properties in the vicinity of the CDE Site. In addition to these newly-identified properties, the Selected Remedy requires a re-evaluation of the 13 residential properties where soil removal actions have already been performed, to insure that those cleanups are consistent with the remediation goals established for OU1.

In addition, dust samples will be collected from the interior of homes, and where PCB-contaminated dust is encountered at levels in excess of EPA's Remediation Goal of 1 ppm, indoor dust remediation will be performed. Post-cleaning indoor dust samples will be collected to determine the effectiveness of the remediation.

Where necessary to ensure the health or safety of residents, or to allow cleanup activities to proceed, temporary relocation of residents may be required. Temporary relocation is more likely at properties requiring indoor dust remediation.

The estimated cost of Alternative 3 is \$760,000. A summary of the estimated remedy costs is included in Appendix II, Table 9 and 10. The information in the cost estimate summary table is based on the best available information regarding the anticipated scope of the remedial alternatives. Changes in the cost elements are likely to occur as a result of new information and data collected during the engineering design of the remedial alternatives. Major changes may be documented in the form of a memorandum in the Administrative Record file, an Explanation of Significant Differences, or a ROD amendment.

The Selected Remedy will require the completion of a Stage IA Cultural Resources investigation, and may require mitigation depending upon the results of that investigation.

The selection of Alternative 3 is believed to provide the best balance of trade-offs among the alternatives with respect to the evaluation criteria. EPA and NJDEP believe the selected alternative will be protective of human health and the environment, complies with Federal and State requirements that are legally applicable or relevant and appropriate to the remedial action, is cost-effective, and will utilize permanent solutions and treatment technologies to the maximum extent practicable. Based on the sampling performed to date, the contaminated soil will not require treatment to meet the requirements of off-site disposal facilities. Therefore, Alternative 3 would not meet the statutory preference for the use of remedies that employ treatment that reduces toxicity, mobility or volume as a principal element.

STATUTORY DETERMINATIONS

As was previously noted, CERCLA Section 121(b)(1) mandates that a remedial action must be protective of human health and the environment, cost-effective, and utilize permanent solutions and alternative treatment technologies or resource recovery technologies to the maximum extent practicable. CERCLA Section 121(b)(1) also establishes a preference for remedial actions that employ treatment to permanently and significantly reduce the volume, toxicity, or mobility of the hazardous substances, pollutants, or contaminants at a site. CERCLA Section 121(d) further specifies that a remedial action must attain a degree of cleanup that satisfies ARARs under federal and state laws, unless a waiver can be justified pursuant to CERCLA Section 121(d)(4). For the reasons discussed below, EPA has determined that the selected remedy meets the requirements of CERCLA Section 121.

Protection of Human Health and the Environment

The Selected Remedy, Alternative 3, will adequately protect human health and the environment through off-site treatment, if necessary, and disposal. The Selected Remedy will eliminate all significant direct-contact risks to human health and the environment associated with contaminated soil and indoor dust on the OUI properties. This action will result in the reduction of exposure levels to acceptable risk levels within EPA's generally acceptable risk range of 10^{-4} to 10^{-6} for carcinogens and below a HI of 1.0 for noncarcinogens. Implementation of the Selected

Remedy will not pose unacceptable short-term risks or adverse cross-media impacts.

Compliance with ARARs

At the completion of the response action for the PCB-contaminated properties, the Selected Remedy will meet the standards of all applicable ARARs, including:

Action-Specific ARARs:

Compliance with action-specific ARARs will be achieved by conducting all remedial action activities in accordance with the following:

- TSCA - Requirements codified at 40 CFR § 761.61 provide a risk-based approach for managing PCB wastes.
- TSCA - Requirements codified at 40 CFR § 761.65 govern storage for disposal of PCB waste with concentrations of 50 ppm or greater.
- TSCA - Requirements codified at 40 CFR § 761.79 set decontamination standards for equipment and personal protective equipment.
- RCRA - Requirements codified at 40 CFR Part 262 govern packaging, labeling, manifesting and storage of hazardous waste.
- RCRA - Requirements codified at 40 CFR Part 263 govern off-site transport of hazardous waste.
- RCRA - Requirements codified at 40 CFR Part 264 govern on-site storage of hazardous waste.
- RCRA - Land Disposal Restrictions. Land disposal restrictions (LDRs), codified at 40 CFR Part 268, prohibit land disposal of soils exhibiting the toxicity characteristic because of the presence of metals and containing PCBs, unless total PCBs are less than 1,000 ppm and the soils meet specified treatment standards.
- Hazardous Materials Transportation Law, 49 U.S.C. § 5101 et seq. - Hazardous wastes that are transported off-site must meet Department of Transportation regulations set forth in 49 CFR Parts 105, 107, 171-178.
- Clean Water Act (CWA) - Section 402 of the CWA, 33 U.S.C. § 1342, and its regulations codified at 40 CFR Part 122,

govern discharge of stormwater from construction sites of more than one acre.

- New Jersey Hazardous Waste Management Regulations - Requirements codified at N.J.A.C. 7:26G establish standards for generation, accumulation, on-site management, and transportation of hazardous wastes.
- NJDEP Technical Requirements for Site Remediation. These requirements, codified at N.J.A.C. 7:26E, specify technical standards to be followed at sites undergoing remediation pursuant to New Jersey remediation programs.
- New Jersey Air Quality Regulations - Requirements codified at N.J.A.C. 7:27 are applicable to the generation and emission of air pollutants.
- National Historic Preservation Act - Pursuant to Section 106 of the National Historic Preservation Act, potentially significant cultural resources at the Site must be identified.

Chemical-Specific ARARs:

- None applicable.

Location-Specific ARARs:

- None applicable.

To Be Considered Material (TBCs). The following requirements will be considered by EPA during design and implementation of the Selected Remedy, and will be complied with the extent practicable.

- NJDEP Guidance for Remediation of Contaminated Soils. NJDEP has developed a residential direct contact soil cleanup criterion of 0.49 ppm for PCB-contaminated soil. While EPA has selected a Remediation Goal of 1.0 ppm for the OUI properties, EPA believes that the selected remedy may achieve the NJDEP criterion. On properties where the NJDEP criterion is not attained, NJDEP may elect to take additional actions to meet its more stringent guideline.
- NJDEP standards for soil erosion and sediment control, N.J.A.C. 2:90-1.1, describes the recommended approach and standards to be used for soil erosion and sediment control plans.

Other Pertinent Requirements

- Occupational Safety and Health Act (OSHA) - Occupational Safety and Health Standards for Hazardous Response and General Construction Activities (29 CFR Parts 1904, 1910, 1926) are intended to protect workers from harm related to occupational exposure to chemical contaminants, physical hazards, heat or cold stresses, noise, etc. OSHA is considered to be a "non-environmental law" whose standards and requirements apply of their own force, not as a result of the CERCLA ARAR system (55 FR 8680, March 8, 1990). For this reason, remediation activities at the Site will be subject to the requirements of OSHA.
- EPA guidance document, "Superfund Response Actions: Temporary Relocations Implementation Guidance" provides guidance to EPA concerning implementation of temporary relocation activities when necessary.

A comprehensive list of ARARs and TBCs (e.g., advisories, criteria, and guidance) is provided in the Final Feasibility Study Report for OU1, Table 3-1.

Cost-Effectiveness

In EPA's judgment, the Selected Remedy is cost effective and represents reasonable value for the money to be spent. Overall effectiveness was evaluated by assessing three of the five balancing criteria in combination (long-term effectiveness and permanence; reduction in toxicity, mobility and volume through treatment; and short-term effectiveness). Overall effectiveness was then compared to costs to determine cost-effectiveness. The overall effectiveness of the Selected Remedy has been determined to be proportional to the costs, and the Selected Remedy therefore represents reasonable value for the money to be spent.

The estimated present worth of the Selected Remedy for OU1 is \$760,000, whereas the estimated present worth of Alternative 2 is \$770,000. Alternative 3 thus is both less expensive and significantly more protective of human health and the environment than Alternative 2, necessarily making it the most cost-effective alternative.

Utilization of Permanent Solutions and Alternative Treatment Technologies to the Maximum Extent Practicable

EPA has determined that the Selected Remedy represents the maximum extent to which permanent solutions and treatment technologies can be utilized in a practicable manner at the Site.

As between Alternatives 2 and 3, the alternatives that are protective of human health and the environment and comply with ARARs, EPA has determined that Alternative 3 provides the better balance of trade-offs with respect to the five balancing criteria.

The Selected Remedy satisfies the criteria for long-term effectiveness and permanence by removing PCBs from soil and indoor dust. The Selected Remedy presents a higher short-term risk than Alternative 2 because of the greater potential for exposure associated with excavation and transportation of contaminated soils. However, these short-term risks will be mitigated through implementation of measures such as engineering controls, use of personal protective equipment, safe work practices and perimeter air monitoring.

The Selected Remedy is implementable since it employs standard technologies that are readily available. In contrast, implementation of sufficiently protective engineering and institutional controls, as required in Alternative 2, would require the cooperation of the property owners, which cannot be assured. Moreover, engineering and institutional controls would reduce, but not eliminate the possibility that contaminated soils could be disturbed and redistributed, leading to exposure to PCBs and associated health and environmental risks.

Preference for Treatment as a Principal Element

Based on the sampling performed to date, the contaminated soil will not require treatment to meet the requirements of off-site disposal facilities. The Selected Remedy does not meet the statutory preference for the use of remedies that employ treatment that reduces toxicity, mobility or volume as a principal element.

Five-Year Review Requirements

Because this remedy will not result in hazardous substances, pollutants, or contaminants remaining on the OU1 properties above levels that allow for unlimited use and unrestricted exposure, it will not be necessary to perform a statutory review within five years after initiation of the remedial actions to ensure that the remedies are, or will be, protective of human health and the environment.

DOCUMENTATION OF SIGNIFICANT CHANGES

The Proposed Plan for the Cornell-Dubilier Electronics site was released for public comment on June 16, 2003. The comment period closed on July 16, 2003.

The text of the proposed plan did not include language regarding the need to perform additional Cultural Resources work pursuant to the recommendations of the Stage IA Cultural Resources survey performed for the Site. The Selected Remedy will require additional Cultural Resources work, including additional Stage IA-related activities for OU1 and further work needed based on the results and recommendations of the additional Stage IA-related activities. This work will be completed during the remedial design for OU1 and before any remedial actions are implemented for OU1.

The text of the proposed plan stated that the hazard indices for the three properties identified in the RI investigation were 56, 2.8, and 2.4 for the young child and 6.7, less than 1, and less than 1 for the adult at the individual properties. The correct hazard indices are 36, 14, and 2 for the young child and 4, 2, and less than 1 for the adult. Furthermore, the text of the proposed plan did not include the hazard indices for the one property that was identified during the earlier removal action investigation, but would be addressed under this final remedy. At this property, the hazard indices were 1.5 for the young child and less than 1 for the adult.

All written and verbal comments submitted during the public comment period were reviewed by EPA. Upon review of these comments, it was determined that no significant changes to the remedy, as it was originally identified in the Proposed Plan, were necessary.

APPENDIX I

FIGURES

847590040

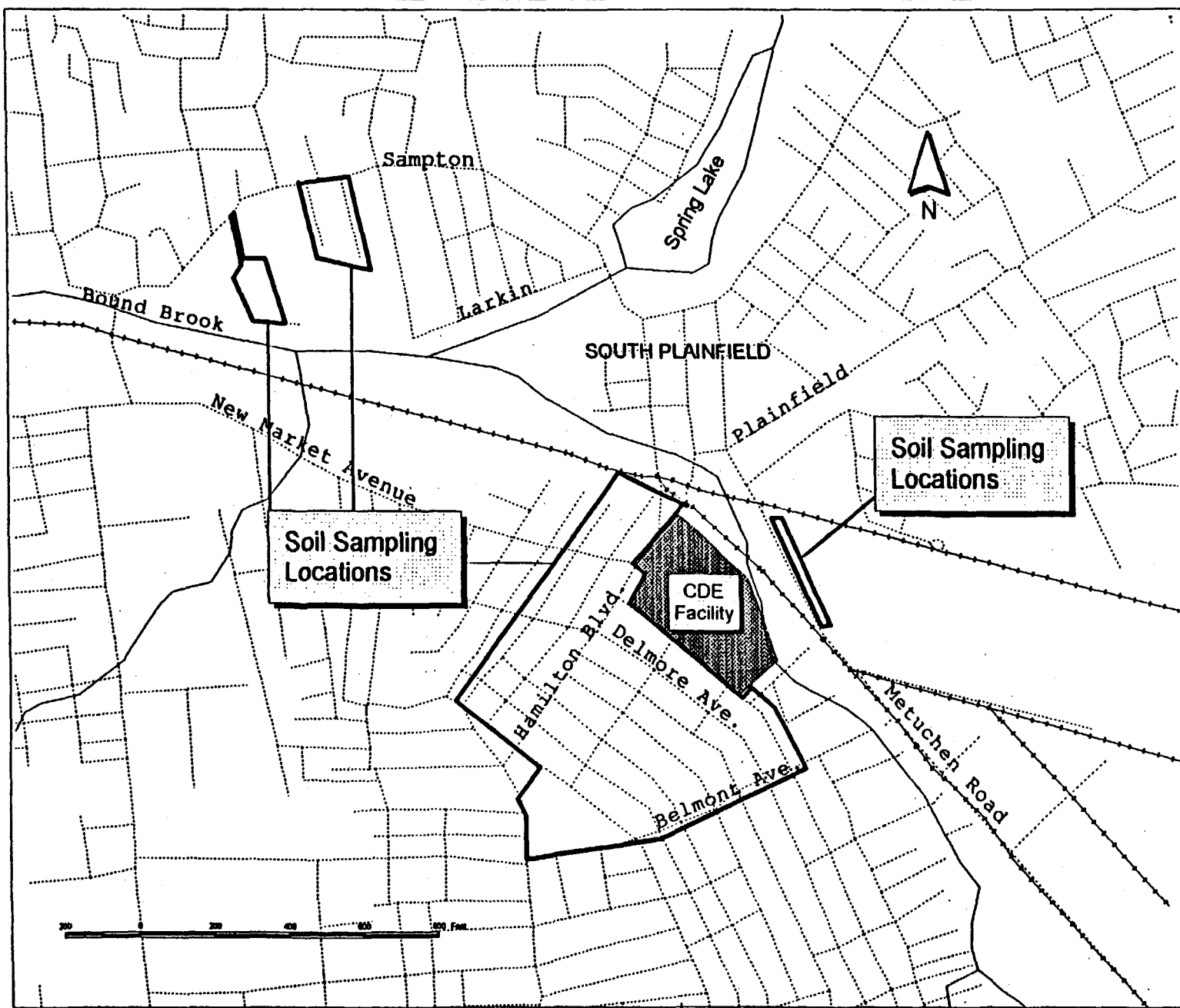
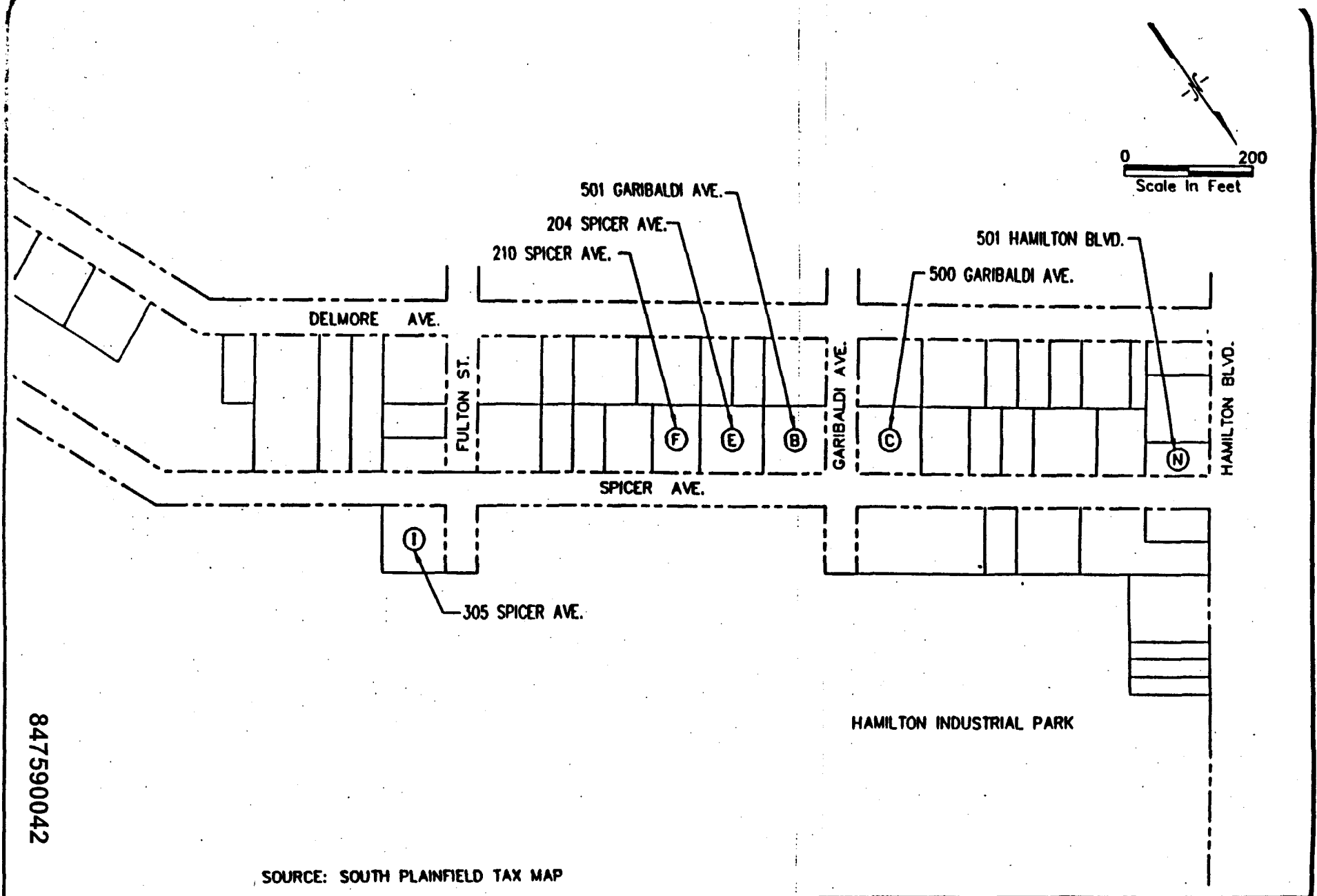


Figure 1
Cornell-Dubilier Electronics Site
Residential, Commercial, and Municipal Sampling Locations

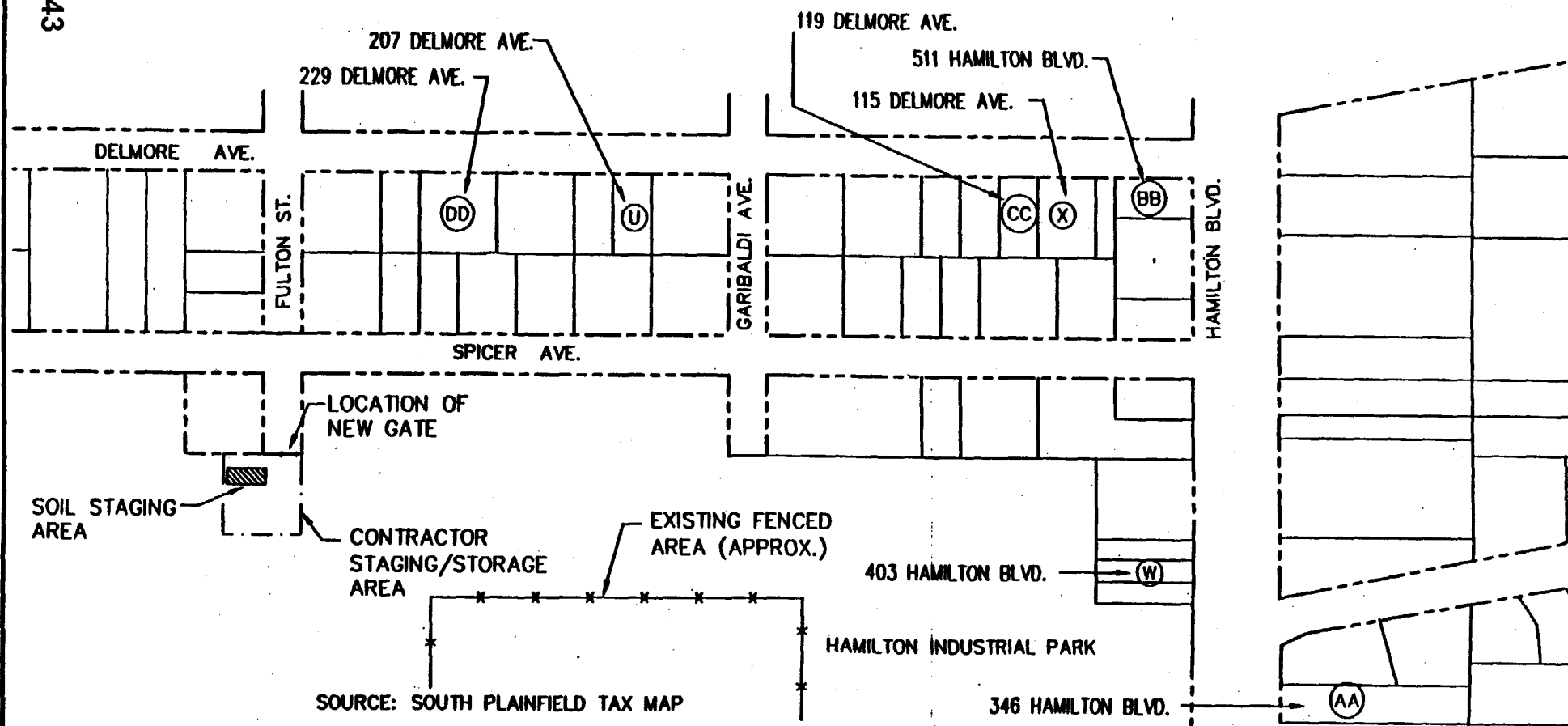
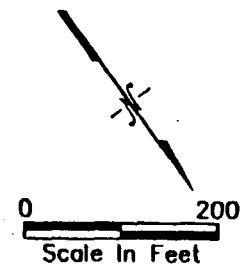
847590041



PROPERTY LOCATION MAP
RESIDENTIAL SITES-HAMILTON INDUSTRIAL PARK
SOUTH PLAINFIELD, NEW JERSEY

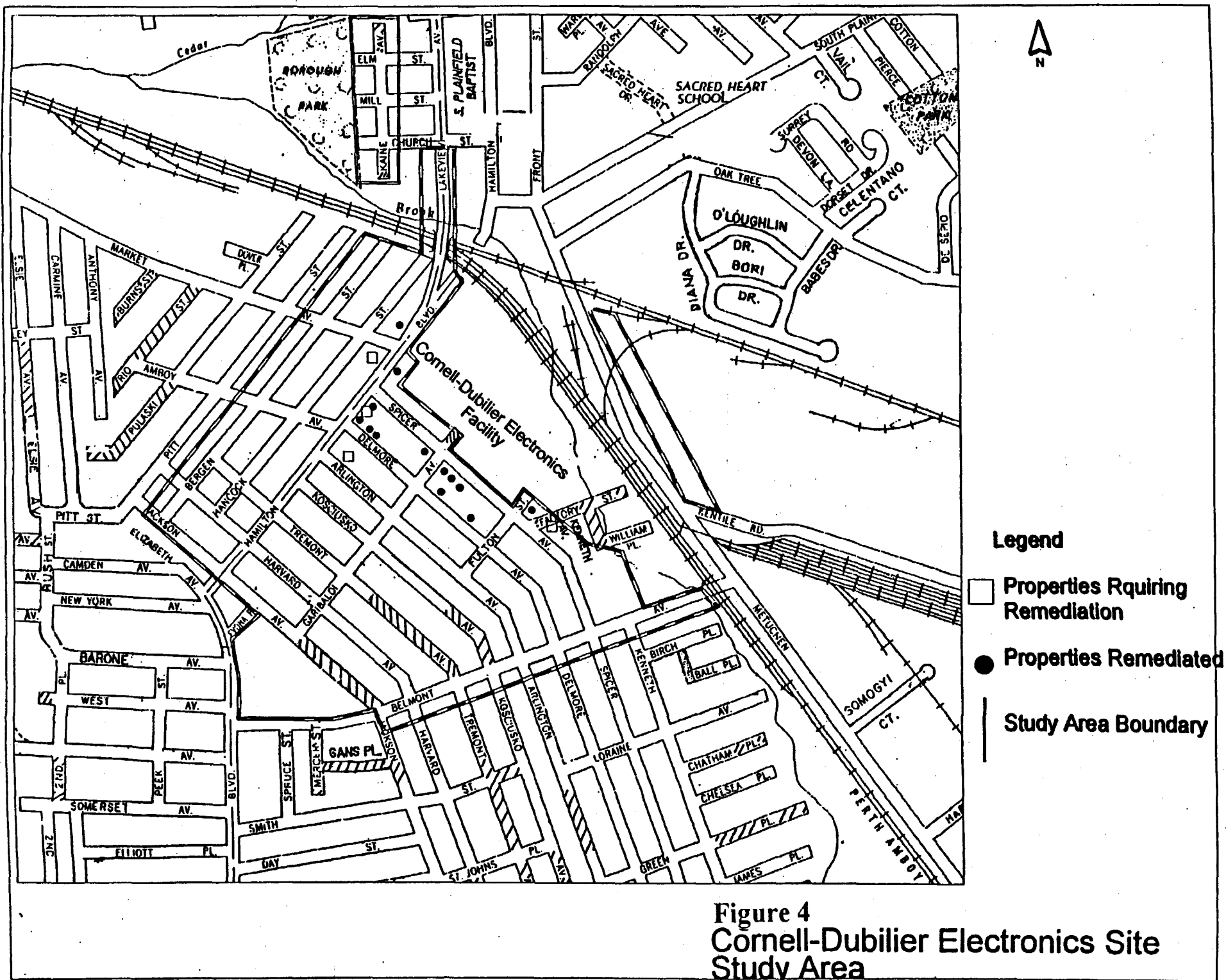
Figure 2

847590043

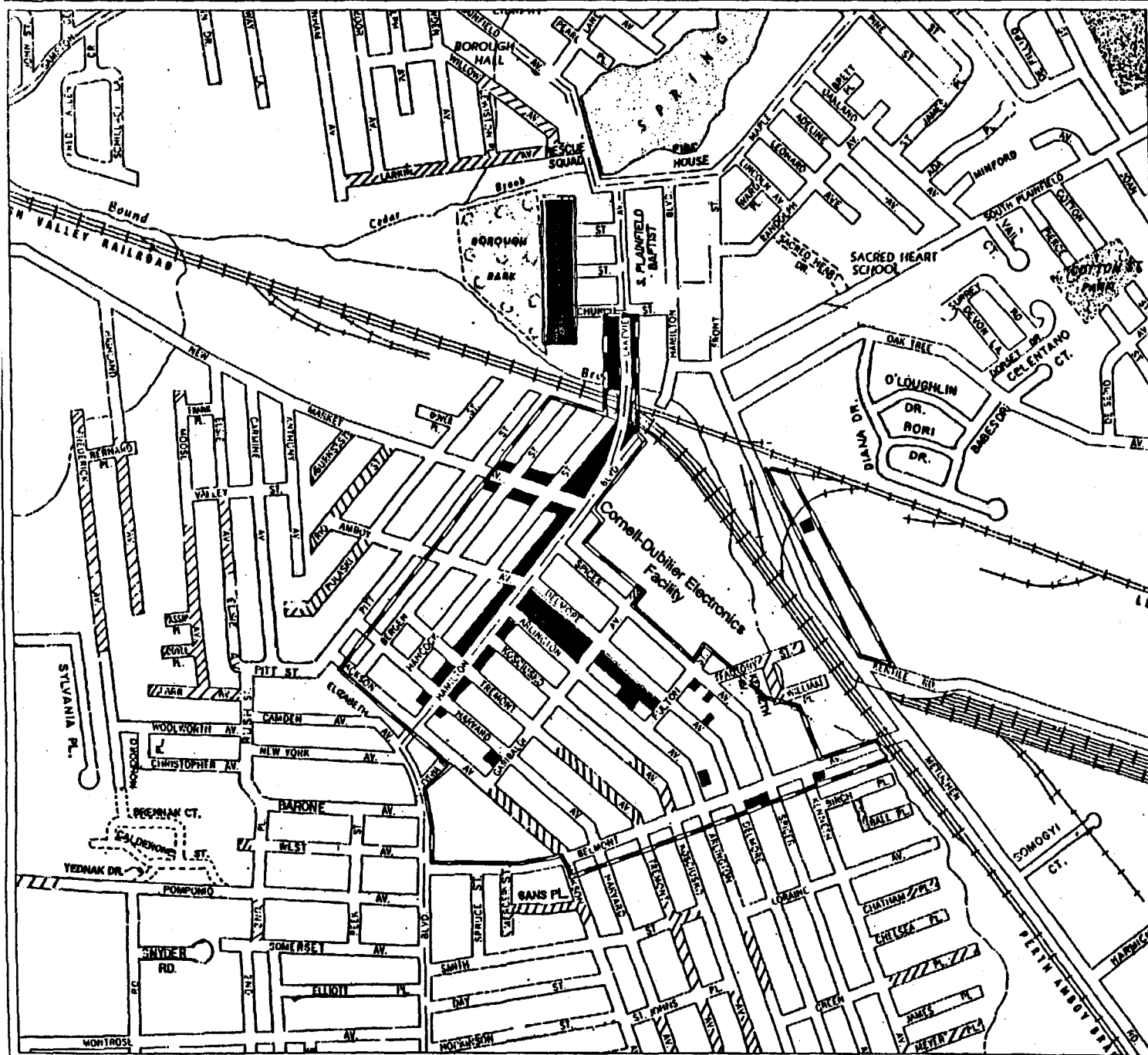


PROPERTY LOCATION MAP
TIER II RESIDENTIAL SITES
SOUTH PLAINFIELD, NEW JERSEY

Figure 3



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Legend

Areas Requiring Additional Sampling

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Figure 5
Cornell-Dubilier Electronics Site
Area Requiring Additional Sampling

APPENDIX II

TABLES

Table 1. Conceptual Site Model for Residential Properties.

Scenario/ Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	On-Site/ Off-Site	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Current/ Future	Soil	Surface Soil	Surface Soil	Resident	Adult	Ingestion	Off-Site	Quant.	Currently in use as residential, commercial, or municipal property, and residential use is considered an reasonable maximum exposure.
						Dermal Contact	Off-Site	Quant.	Currently in use as residential, commercial or municipal property, and residential use is considered an reasonable maximum exposure.
				Resident	Child	Ingestion	Off-Site	Quant.	Currently in use as residential, commercial, or municipal property, and residential use is considered an reasonable maximum exposure.
						Dermal Contact	Off-Site	Quant.	Currently in use as residential, commercial, or municipal property, and residential use is considered an reasonable maximum exposure.

Table 2. Summary of Chemicals of Concern and Medium Specific Exposure Point Concentrations (EPCs).

Scenario Timeframe: Current Medium: Surface Soil Exposure Medium: Surface Soil								
Exposure Point (Property Number)	Chemical of Concern	Concentration Detected		Units	Frequency of Detection	Exposure Point Concentration	Exposure Point Concentration Units	Statistical Measure
Min.	Max.							
1	Aroclor - 1254	0.014	6.1	mg/kg	19/20	2.3	mg/kg	95% UCL-C (Chebychev Inequality Test)
13	Aroclor - 1254	0.033	0.28	mg/kg	8/20	0.41	mg/kg	95% UCL-C
13	Aroclor-1260	0.031	44	mg/kg	7/20	16.0	mg/kg	95% UCL-C
18	Aroclor - 1254	0.063	270	mg/kg	22/23	41	mg/kg	99% UCL-C
D	Aroclor-1254	0.09	2.8	mg/kg	16/18	0.83	mg/kg	95% UCL-T
D	Aroclor-1260	0.11	2.2	mg/kg	16/18	0.80	mg/kg	95% UCL-T

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Table 3. Cancer Toxicity Data Summary

Chemical of Concern	Oral Cancer Slope Factor	Dermal Cancer Slope Factor	Slope Factor Units	Weight of Evidence Cancer Guidelines Description	Source	Date (mm/dd/yy)
Pathways: Ingestion, Dermal						
Polychlorinated Biphenyls (RME)	2.0	2.0	(mg/kg-day) ⁻¹	B2 (likely)	IRIS	5/21/01
Polychlorinated Biphenyls (CTE)	1.0	1.0	(mg/kg-day) ⁻¹	B2 (likely)	IRIS	5/21/01

IRIS = Integrated Risk Information System (USEPA).

(1) The B2 designation specifies a probable human carcinogen indicating there is sufficient evidence in animals and either inadequate or inadequate but suggestive evidence in humans.

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Table 4. Non-Cancer Toxicity Data Summary.

Chemical of Concern	Chronic/ Subchronic	Oral RfD	Oral RfD Units	Dermal RfD	Dermal RfD Units	Primary Target Organ	Combined Uncertainty/ Modifying Factors	Sources of RfD: Target Organ (1)	Dates of RfD Target Organ (mm/dd/yy)
Pathways: Ingestion, Dermal									
Aroclor 1254	Chronic	2.0 E-05	(mg/kg-day) ⁻¹	2.0 E-05	(mg/kg-day) ⁻¹	Immune System/ Eye Gland	300	IRIS	05/22/01

IRIS = Integrated Risk Information System (USEPA).

Oral RfD for Aroclor 1254 used; there is no RfD available for Aroclor 1260 and total PCBs. The PCBs in the residences are most like Aroclor 1254.

Table 5. Risk Characterization Summary for RME Exposures Individual Properties That Will Be Remediated.

Scenario Timeframe: Current/Future Receptor Population: Child Receptor Age: 0 to 6 Years Old							
Medium and Property	Exposure Medium	Chemical of Concern	Ingestion	Inhalation	Dermal	External Radiation	Exposure Routes Total
Surface Soil - 1	Surface Soil	Aroclor 1254	5.0 E-06	-	2.0 E-06	NA	7 E-06
Surface Soil - 13	Surface Soil	Aroclor 1254 + Aroclor 1260	3.5 E-05	-	1.4 E-05	NA	5 E-05
Surface Soil - 18	Surface Soil	Aroclor 1254	9.0 E-05	-	3.5 E-05	NA	1 E-04
Surface Soil - D	Surface Soil	Aroclor 1254 + Aroclor 1260	3.6 E-06	-	1.4 E-06	NA	5 E-06

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Table 5 - Continued.

Scenario Timeframe: Current/Future
 Receptor Population: Adult
 Receptor Age: 19 Years or Older

Medium and Property	Exposure Medium	Chemical of Concern	Ingestion	Inhalation	Dermal	External Radiation	Exposure Routes Total
Surface Soil - 01	Surface Soil	Aroclor 1254	2.2 E-06	-	1.2 E-06	NA	3 E-06
Surface Soil - 13	Surface Soil	Aroclor 1254 + Aroclor 1260	1.5 E-05	-	8.4 E-06	NA	2 E-05
Surface Soil - 18	Surface Soil	Aroclor 1254	3.9 E-05	-	2.2 E-05	NA	6 E-05
Surface Soil - D	Surface Soil	Aroclor 1254 + Aroclor 1260	1.5 E-06	-	8.6 E-07	NA	2 E-06

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Table 6. Risk Characterization Summary for CTE Exposures for Individual Properties for Remediation.

Scenario Timeframe: Current/Future Receptor Population: Child Receptor Age: 0 to 6 Years Old							
Medium and Property	Exposure Medium	Chemical of Concern	Ingestion	Inhalation	Dermal	External Radiation	Exposure Routes Total
Surface Soil - 1	Surface Soil	Aroclor 1254	1.3 E-06	-	2.0 E-07	NA	1 E-06
Surface Soil - 13	Surface Soil	Aroclor 1254 + Aroclor 1260	8.8 E-06	-	1.4 E-06	NA	1 E-05
Surface Soil - 18	Surface Soil	Aroclor 1254	2.3 E-05	-	3.5 E-06	NA	3 E-05
Surface Soil - D	Surface Soil	Aroclor 1254 + Aroclor 1260	8.9 E-07	-	1.4 E-07	NA	1 E-06

Scenario Timeframe: Current/Future Receptor Population: Adult Receptor Age: 19 Years or Older							
Medium and Property	Exposure Medium	Chemical of Concern	Ingestion	Inhalation	Dermal	External Radiation	Exposure Routes Total
Surface Soil - 1	Surface Soil	Aroclor 1254	2.0 E-07	-	3.2E-08	NA	2 E-07
Surface Soil - 13	Surface Soil	Aroclor 1254 + Aroclor 1260	1.4 E-06	-	2.2 E-07	NA	2 E-06
Surface Soil - 18	Surface Soil	Aroclor 1254	3.6 E-06	-	5.8 E-07	NA	4 E-06
Surface Soil - D	Surface Soil	Aroclor 1254 + Aroclor 1260	1.4 E-07	-	2.3 E-08	NA	2 E-07

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Table 7. Risk Characterization Summary for RME Exposures for Individual Properties Requiring Remediation.

Scenario Timeframe: Current/Future Receptor Population: Child Receptor Age: 0 to 6 Years Old							
Medium and Property	Exposure Medium	Chemical of Concern	Primary Target Organ	Non-Cancer Hazard Index			
				Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil - 01	Surface Soil	Aroclor 1254	Eyes/ Immune System	1.5	NA	0.58	2
Surface Soil - 13	Surface Soil	Aroclor 1254 + Aroclor 1260	Eyes/Immune System	10.5	NA	4.1	14
Surface Soil - 18	Surface Soil	Aroclor 1254	Eyes/Immune System	26	NA	10	36
Surface Soil - D	Surface Soil	Aroclor 1254 + Aroclor 1260	Eyes/Immune System	1.04	NA	0.41	1.5

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Table 7 - Continued.

Scenario Timeframe: Current/Future Receptor Population: Adult Receptor Age: 19 Years or Older							
				Non-Cancer Hazard Index			
Medium and Property	Exposure Medium	Chemical of Concern	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil - 1	Surface Soil	Aroclor 1254	Eyes/Immune System	0.16	NA	0.09	0.3
Surface Soil - 13	Surface Soil	Aroclor 1254 + Aroclor 1260	Eyes/ Immune System	1.1	NA	0.6	2
Surface Soil - 18	Surface Soil	Aroclor 1254	Eyes/Immune System	2.8	NA	1.6	4
Surface Soil - D	Surface Soil	Aroclor 1254 + Aroclor 1260	Eyes/Immune System	0.11	NA	0.06	0.2

Table 8 . Risk Characterization Summary for CTE Exposures for Individual Properties Requiring Remediation.

Scenario Timeframe: Current/Future Receptor Population: Child Receptor Age: 0 to 6 Years Old							
				Non-Cancer Hazard Index			
Medium and Property	Exposure Medium	Chemical of Concern	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil - 1	Surface Soil	Aroclor 1254	Eyes/Immune System	0.74	NA	0.12	0.9
Surface Soil - 13	Surface Soil	Aroclor 1254 + Aroclor 1260	Eyes/Immune System	5.2	NA	0.8	6
Surface Soil - 18	Surface Soil	Aroclor 1254	Eyes/Immune System	13.0	NA	2.1	15
Surface Soil - D	Surface Soil	Aroclor 1254 + Aroclor 1260	Eyes/Immune System	0.52	NA	0.08	0.6

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Table 8 - Continued.

Scenario Timeframe: Current/Future
 Receptor Population: Adult
 Receptor Age: 19 Years or Older

Medium and Property	Exposure Medium	Chemical of Concern	Primary Target Organ	Non-Cancer Hazard Index			
				Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil - 1	Surface Soil	Aroclor 1254	Eyes/Immune System	0.08	NA	0.01	0.09
Surface Soil - 13	Surface Soil	Aroclor 1254 + Aroclor 1260	Eyes/ Immune System	0.56	NA	0.09	0.6
Surface Soil - 18	Surface Soil	Aroclor 1254	Eyes/Immune System	1.4	NA	0.2	2
Surface Soil - D	Surface Soil	Aroclor 1254 + Aroclor 1260	Eyes/Immune System	0.06	NA	0.009	0.06

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TABLE 9

SUMMARY OF COST ESTIMATES FOR SOIL ALTERNATIVES

ALTERNATIVE	TOTAL CAPITAL COST	ANNUAL O&M COST	TOTAL PRESENT WORTH
No Action	\$0	\$0	\$0
Limited Action; Engineering and Institutional Controls	\$520,000	\$20,000	\$770,000
Excavation and Off-Site Treatment/Disposal	\$760,000	\$0	\$760,000

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Table 10
Capital Costs for the Selected Remedy

Description	Quantity	Mat. unit	Material	Ins. unit	Installation	Total
I. Decontamination Pad	1	5000	500	2,000	2,000	2,500
II. Excavation of off-site soils	2,105	0	0	20	21,052	21,052
III. Backfill of off-site excavated area with clean fill, grade and compact	2,105	20	42,104	10.00	21,052	63,157
IV. Property Restoration	15	2,500	37,500	2,500	37,500	75,000
IVa. Replacement Contingency - 10%						7,500
V. Off-site disposal of contaminated soils at a RCRA landfill	3,158	0	0	75	236,838	236,838
VI. Interior Cleaning	7	0	0	20,000	140,000	140,000
VII. Health and Safety	1	0	0	10,000	10,000	10,000
VIII. Mobilization/Demobilization	1	0	0	5,000	5,000	<u>5,000</u>
Subtotal						561,046
Contingency (20%)						112,209
Engineering (10%)						56,105
Legal (5%)						<u>26,052</u>
Total Capital Cost						<u>757,413</u>

There is no O&M cost associated with the Selected Remedy.

APPENDIX III

ADMINISTRATIVE RECORD INDEX

847590060

CORNELL DUBILIER ELECTRONICS, INC.
OPERABLE UNIT ONE
ADMINISTRATIVE RECORD FILE
INDEX OF DOCUMENTS

2.0 REMOVAL RESPONSE

2.1 Sampling and Analysis Plans

- P. 200001 - Plan: Site-Specific Health and Safety Plan,
200040 Cornell-Dubilier Site, Southern Plainfield, New
Jersey, prepared by Earth Tech, Inc., prepared for
U.S. EPA, Region II, April 3, 1998.
- P. 200041 - Plan: Revised Residential Property Removal Action
200219 Work Plan, South Plainfield, New Jersey, prepared
by Environ Corporation, prepared for Foley, Hoag &
Eliot, for submission to U.S. EPA, Region II,
September 1998. (Revised November 6, 1998.)
- P. 200220 - Plan: Residential Property Removal Action Work
200231 Plan, South Plainfield, New Jersey, Appendix B,
Property Restoration Plan, prepared by Environ
Corporation, prepared for Foley, Hoag & Eliot, for
submission to U.S. EPA, Region II, October 1998.
- P. 200232 - Letter to Mr. Eric Wilson, On-Scene Coordinator,
200319 U.S. EPA, Region II, from Mr. Michael P. Scott,
Principal, Environ Corporation, re: Cornell
Dubilier Electronics Site - Administrative Order
on Consent for Removal Action, Index No. II-
CERCLA-99-2006, Revised Tier II Residential
Property Removal Action Work Plan, May 21, 1999.
(Attachment: Plan: Revised Removal Action Work
Plan for Tier II Residential Properties, South
Plainfield, New Jersey, prepared by Environ
Corporation, prepared for Foley, Hoag & Eliot,
LLP, and Mintz, Levin, Cohn, Ferris, Glovsky and
Popeo, P.C., for submission to U.S. EPA, Region
II, April 1999. (Revised: May 21, 1999.)

2.2 Sampling and Analysis Data/Chain of Custody Forms

- P. 200320 - Report: Sampling Trip Report, prepared by
200340 Mr. Michael Mahnkopf, Region II START Project
Manager, Roy F. Weston, Inc., prepared for U.S.
EPA, Region II, July 2, 1997.
- P. 200341 - Transmittal Memo to Mr. Eric Wilson, On-Scene
200391 Coordinator, Removal Action Branch, U.S. EPA
Region II, from Mr. Edward Moyle, Data Reviewer,
Roy F. Weston, Inc., and Mr. Michael Mahnkopf,
Project Manager, START, Roy F. Weston, Inc.,
Region II, re: Cornell Dubilier Electronic Site
Data Validation Assessment, August 4, 1997.
- P. 200392 - Transmittal Memo to Mr. Eric Wilson, On-Scene
200428 Coordinator, Removal Action Branch, U.S. EPA
Region II, from Mr. Adly A. Michael, Data
Reviewer, Roy F. Weston, START, Region II, re:
Cornell Dubilier Electronic, Site, Data Validation
Assessment, August 4, 1997.
- P. 200429 - Report: Final Report, Vacuum Dust Sampling,
200487 Cornell Dubilier Electronics, South Plainfield, New
Jersey, prepared by Roy F. Weston, Inc., prepared
for U.S. EPA, Region II, February 1998.
- P. 200488 - Letter to Mr. Eric Wilson, On-Scene Coordinator,
201105 Removal Action Branch, U.S. EPA, Region II, from
Mr. Michael Mahnkopf, Project Manager, Roy F.
Weston, Inc., re: Tier I Residential Sampling and
Analysis Summary Report, Cornell Dubilier
Electronics, June 25, 1998. (Attachment: Report:
Tier I Residential Sampling and Analysis Summary
Report, Cornell Dubilier Electronics, South
Plainfield, Middlesex County, New Jersey, prepared
by Superfund Technical Assessment and Response
Team, Roy F. Weston, Inc., prepared for U.S. EPA,
Region II, June 25, 1998.)
- P. 201106 - Letter to Mr. Eric Wilson, On-Scene Coordinator
201670 Removal Action Branch, U.S. EPA, Region II, from
Mr. Michael Mahnkopf, Project Manager, Roy F.
Weston, Inc., re: Tier II Residential Sampling and
Analysis Summary Report, Cornell Dubilier

Electronics, July 2, 1998. (Attachment: Report: Tier II Residential Sampling and Analysis Summary Report, Cornell Dubilier Electronics, South Plainfield, Middlesex County, New Jersey, prepared by Superfund Technical Assessment and Response Team, Roy F. Weston, Inc., prepared for U.S. EPA, Region II, July 2, 1998.)

- P. 201671 - Letter to Mr. Eric Wilson, On-Scene Coordinator
201841 Removal Action Branch, U.S. EPA, Region II, from Mr. Michael Mahnkopf, Project Manager, Roy F. Weston, Inc., re: Tier III Residential/Neighborhood Sampling and Analysis Summary Report - Cornell Dubilier Electronics, July 10, 1998. (Attachment: Report: Tier III, Residential/Neighborhood Sampling and Analysis Summary Report - Cornell Dubilier Electronics, prepared by Superfund Technical Assessment and Response Team, Roy F. Weston, Inc., prepared for U.S. EPA, Region II, July 10, 1998.)
-
- P. 201842 - Report: Final Report, Vacuum Dust Sampling,
202005 Cornell Dubilier Electronics, South Plainfield, New Jersey, prepared by Roy F. Weston, Inc., prepared for U.S. EPA, Region II, July 1998.
- P. 202006 - Report: Final Report, Vacuum, Wipe, and Soil
202082 Sampling, Cornell Dubilier Electronics, South Plainfield, New Jersey, prepared by Roy F. Weston, Inc., prepared for U.S. EPA, Region II, December 1998.
- P. 202083 - Letter to Mr. Eric Wilson, On-Scene Coordinator
202168 Removal Action Branch, U.S. EPA, Region II, from Mr. Michael Mahnkopf, Project Manager, Roy F. Weston, Inc., re: Tier I Residential Sampling and Analysis Summary Report, Addendum No. 1 - Cornell Dubilier Electronics, February 16, 1999. (Attachment: Report: Tier I Residential Sampling and Analysis Summary Report, Addendum No. 1, Cornell Dubilier Electronics, South Plainfield, Middlesex County, New Jersey, prepared by Superfund Technical Assessment and Response Team, Roy F. Weston, Inc., prepared for U.S. EPA, Region II, February 16, 1999.)

- P. 202169 - Letter to Mr. Eric Wilson, Cornell-Dubilier
202238 Electronics Site, On-Scene Coordinator, U.S. EPA,
Region II, from Mr. Michael P. Scott, Principal,
Environ Corporation, re: Cornell Dubilier
Electronics Site - Administrative Order on Consent
for Removal Action, Index No. II-CERCLA-98-0115,
Final Report, July 21, 1999. (Attachment: Report:
Tier I Residential Property Removal Action Final
Report, South Plainfield, New Jersey, Volume 1 of
2, prepared by Environ International Corporation,
prepared for Foley, Hoag & Eliot, for submission to
U.S. EPA, Region II, July 1999.)
- P. 202239 - Report: Tier I Residential Property Removal
202590 Action Final Report, South Plainfield, New Jersey,
Volume 2 of 2, prepared by Environ International
Corporation, prepared for Foley, Hoag & Eliot, for
submission to U.S. EPA, Region II, July 1999.
- P. 202591 - Report: Tier II Residential Property Removal
202660 Action Final Report, South Plainfield, New Jersey,
Volume 1 of 2, prepared by Environ International
Corporation, prepared for Foley, Hoag & Eliot, LLP,
Michael P. Last, Esq. c/o Rackemann, Sawyer &
Brewster, for submission to U.S. EPA, Region II,
January 2000.
- P. 202661 - Report: Tier II Residential Property Removal
202894 Action Final Report, South Plainfield, New Jersey,
Volume 2 of 2, prepared by Environ International
Corporation, prepared for Foley, Hoag & Eliot, LLP,
Michael P. Last, Esq. c/o Rackemann, Sawyer &
Brewster, for submission to U.S. EPA, Region II,
January 2000.
- P. 202895 - Letter to Mr. Eric Wilson, On-Scene Coordinator,
203537 U.S. EPA, Region II, from Mr. Michael Mahnkopf,
Project Manager, Roy F. Weston, Inc., re:
Floodplain Soil/Sediment Sampling and Analysis
Summary Report, Cornell Dubilier Electronics,
January 17, 2000. (Attachment: Report: Floodplain
Soil/Sediment Sampling and Analysis Summary Report,
Cornell Dubilier Electronics, South Plainfield,
Middlesex County, New Jersey, prepared by Superfund
Technical Assessment and Response Team, Roy F.
Weston, Inc., prepared for U.S. EPA, Region II,
January 17, 2000.)

3.0 REMEDIAL INVESTIGATION

3.3 Work Plans

- P. 300001 - Plan: Final Work Plan for Remedial Investigation/
300672 Feasibility Study, Cornell Dubilier Electronics
Superfund Site, South Plainfield, Middlesex County,
New Jersey, prepared by Foster Wheeler
Environmental Corporation, prepared for U.S. EPA,
Region II, March 2000.

3.4 Remedial Investigation Reports

- P. 300673 - Report: Final Pathways Analysis Report for
300723 Remedial Investigation/Feasibility Study, Cornell
Dubilier Electronics Superfund Site, South
Plainfield, Middlesex County, New Jersey, prepared
by Foster Wheeler Environmental Corporation,
prepared for U.S. EPA, Region II, May 2000.
- P. 300724 - Report: Final Remedial Investigation Report for
301835 Operable Unit 1 (OU-1), Off-Site Soils, for
Cornell-Dubilier Electronics Superfund Site, South
Plainfield, Middlesex County, New Jersey, prepared
by Foster Wheeler Environmental Corporation,
prepared for U.S. EPA, Region II, August 2001.

4.0 FEASIBILITY STUDY

4.3 Feasibility Study Reports

- P. 400001 - Report: Final Feasibility Study Report for Operable
400130 Unit 1 (OU-1), Off-Site Soils, for Cornell Dubilier
Electronics Superfund Site, South Plainfield,
Middlesex County, New Jersey, prepared by Foster
Wheeler Environmental Corporation, prepared for
U.S. EPA, Region II, August 2001.

7.0 ENFORCEMENT

7.3 Administrative Orders

- P. 700001 - Letter to D.S.C. of Newark Enterprises, Inc., c/o
700020 Michael Colfield, Esq., from Muthu S. Sundram,
Esq., Assistant Regional Counsel, U.S. EPA, Region
II, re: Cornell Dubilier Electronics Site, South

Plainfield, Middlesex County, N.J., EPA Order Index
Number II-CERCLA-97-0109, undated. (Attachment:
Administrative Order in the Matter of: Cornell-
Dubilier Electronic Site, South Plainfield, New
Jersey, D.S.C. of Newark Enterprises, Inc.,
Respondent, Index No: II CERCLA-97-0109, prepared
by U.S. EPA, Region II, March 25, 1997.)

- P. 700021 - Administrative Order on Consent for Removal
700051 Action, in the Matter of: The Cornell-Dubilier
Electronics Superfund Site, Cornell Dubilier
Electronics, Inc., D.S.C. of Newark Enterprises,
Inc., Respondents, Index Number II, CERCLA-98-0115,
prepared by U.S. EPA, Region II, August 6, 1998.
- P. 700052 - Administrative Order on Consent for Removal
700085 Action, in the Matter of: The Cornell Dubilier
Electronics Superfund Site, Cornell Dubilier
Electronics, Inc., Dana Corporation, Respondents,
Index Number II, CERCLA-99-2006, prepared by U.S.
EPA, Region II, February 23, 1999.
- P. 700086 - Administrative Order on Consent for Removal
700116 Action, in the Matter of: The Cornell Dubilier
Electronics Superfund Site, D.S.C. of Newark, Inc.,
Respondent, Index Number, CERCLA-02-2000-2005,
prepared by U.S. EPA, Region II, June 26, 2000.

8.0 HEALTH ASSESSMENTS

8.1 ATSDR Health Assessments

- P. 800001 - Report: Human Health Risk Assessment, Residential
800022 Soils Surrounding the Cornell-Dubilier Site, South
Plainfield, New Jersey, prepared by Program Support
Branch, Emergency and Remedial Response Division,
U.S. EPA, Region II, June 2, 1998.
- P. 800023 - Report: Health Consultation, Cornell Dubilier
800042 Electronics Incorporated, South Plainfield,
Middlesex County, New Jersey, prepared by U.S.
Department of Health and Human Services, Public
Health Service, Agency for Toxic Substances and
Disease Registry, Division of Health Assessment and
Consultation, December 17, 1998.

- P. 800043 - Report: Health Consultation, Cornell Dubilier
800058 Electronics Incorporated, South Plainfield,
Middlesex County, New Jersey, prepared by U.S.
Department of Health and Human Services, Public
Health Service, Agency for Toxic Substances and
Disease Registry, Division of Health Assessment and
Consultation, June 10, 1999.
- P. 800059 - Report: Public Health Assessment for Cornell
800177 Dubilier Electronics Incorporated, South
Plainfield, Middlesex County, New Jersey, prepared
by New Jersey Department of Health and Senior
Services, Hazardous Site Health Evaluation Program,
Consumer and Environmental Health Services,
Division of Epidemiology, Environmental and
Occupational Health, Under a Cooperative Agreement
with the U.S. Department of Health and Human
Services, Public Health Service, Agency for Toxic
Substances and Disease Registry, September 20,
2000.
- P. 800178 - Report: Risk Assessment for Soils and Dust from
800212 Areas Surrounding the Cornell-Dubilier Site,
undated.

CORNELL DUBILIER ELECTRONICS, INC.
OPERABLE UNIT ONE
ADMINISTRATIVE RECORD FILE UPDATE
INDEX OF DOCUMENTS

7.0 ENFORCEMENT

7.3 Administrative Orders

- P. 700117 - Administrative Order for Removal Action, in the
700144 Matter of the Cornell-Dubilier Electronics
Superfund Site, D.S.C. of Newark, Inc., Federal
Pacific Electric Company, Respondents, Index
Number CERCLA-02-99-2012, prepared by U. S. EPA
Region II, April 28, 1999.

10.0 PUBLIC PARTICIPATION

10.9 Proposed Plan

- P. 10.00001- Superfund Program Proposed Plan, Cornell-Dubilier
10.00014 Electronics Site, prepared by U. S. EPA, Region
II, June 2003.

APPENDIX IV

STATE CONCURRENCE LETTER

847590069

**State of New Jersey**

Department of Environmental Protection

James E. McGreevey
GovernorBradley M. Campbell
Commissioner

SEP 30 2003

Ms. Jane Kenny
Regional Administrator
USEPA - Region 2
290 Broadway
New York, N.Y. 10007-1866

Dear Ms. Kenny:

The New Jersey Department of Environmental Protection has evaluated and agrees with implementing the following specific components of the selected remedy for Operable Unit One (OU-1) at the Cornell-Dubilier Electronics Site (CDE) as stated below:

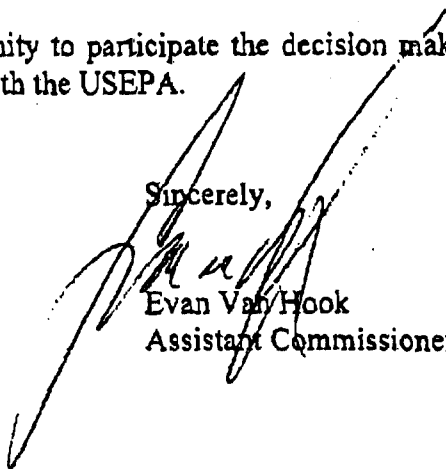
- Excavation of an estimated 2,100 cubic yards of contaminated soil from approximately 16 properties, backfilling with clean fill, and property restoration as necessary;
- Transportation of the contaminated soil off-site for disposal, with treatment as necessary;
- Indoor dust remediation where PCB-contaminated dust is encountered;
- Where necessary, temporary relocation of residents during the indoor remediation; and,
- An additional investigation of the Pre-RI and RI study areas in accordance with N.J.A.C. 7:26 E (Technical Requirements for Site Remediation) to determine if additional properties require remediation.

Although the State agrees with EPA's remedial action, the State disagrees with EPA's selection of 1 ppm as the PCB remediation goal for this action. The NJDEP believes its criteria of 0.49 ppm for PCBs is an ARAR and, therefore, should be the selected remediation goal for this site. It is expected that either EPA's action will coincidentally achieve the State's criteria, or that the Potential Responsible Parties will use the State's criteria for this site. However, the State reserves its right to contest this issue in court

should it be necessary. It is also important for the State and EPA to coordinate all enforcement actions on this site in order to avoid litigation over the criteria issue.

The State of New Jersey appreciates the opportunity to participate the decision making process and looks forward to future cooperation with the USEPA.

Sincerely,



Evan Van Hook
Assistant Commissioner

847590071

APPENDIX V

RESPONSIVENESS SUMMARY CORNELL-DUBILIER ELECTRONICS SUPERFUND SITE OPERABLE UNIT ONE

INTRODUCTION

This Responsiveness Summary provides a summary of the public's comments and concerns regarding the Proposed Plan for the Cornell-Dubilier Electronics Site, and EPA's responses to those comments. At the time of the public comment period, EPA proposed a preferred alternative for remediating soils and indoor dust at properties in the vicinity of the former Cornell-Dubilier Electronics facility, which has been designated Operable Unit 1 (OU1). All comments summarized in this document have been considered in EPA's final decision for the selection of a remedial alternative for OU1.

This Responsiveness Summary is divided into the following sections:

- I. BACKGROUND ON COMMUNITY INVOLVEMENT AND CONCERNS: This section provides the history of community involvement and interests regarding the Cornell-Dubilier Electronics Site.
- II. COMPREHENSIVE SUMMARY OF MAJOR QUESTIONS, COMMENTS, CONCERNS AND RESPONSES: This section contains summaries of oral comments received by EPA at the public meeting, EPA's responses to these comments, as well as responses to written comments received during the public comment period.

The last section of this Responsiveness Summary includes attachments, which document public participation in the remedy selection process for this Site. They are as follows:

Attachment A: the Proposed Plan that was distributed to the public for review and comment;

Attachment B: the public notices that appeared in Observer-Tribune and the Courier-News;

Attachment C: the transcripts of the public meeting; and

Attachment D: the written comments received by EPA during the public comment period.

I. BACKGROUND ON COMMUNITY INVOLVEMENT AND CONCERNS

Since the first public information session for this Site was held by EPA on June 19, 1997, the level of community involvement and

concern with the Site has been high. EPA has conducted an extensive community relations program to meet the community's need for information and to support community participation in seeking remedies for the Site. Since 1997, EPA has held one-on-one meetings and public information sessions with area residents and tenants at the industrial park to explain the findings on the investigation and the sampling results for their properties. In addition to the public participation responsibilities associated with developing the OU1, OU2, and OU3 remedies, EPA has provided the community with fact sheets on the Site.

EPA's Proposed Plan for OU1 was released to the public on June 16, 2003, and starting that same day, EPA held a public comment period to solicit community input and ensure that the public remains informed about Site activities. On June 10, 2003 a copy of the Proposed Plan was mailed to approximately 160 individuals on a mailing list maintained by EPA for the Site. A copy of the Proposed Plan and supporting documentation was placed in the Administrative Record and was made available in the information repositories maintained at the EPA Region II office (290 Broadway, New York, New York) and at the South Plainfield Public Library (2484 Plainfield Avenue, South Plainfield, New Jersey). Public notices were published in local newspapers The Courier-News on June 16, 2003 and The Observer-Tribune on June 19, 2003, advising the public of the availability of the Proposed Plan. The notices also announced the opening of a public comment period on June 16, 2003 and invited all interested parties to attend an upcoming public meeting. The public comment period closed on July 16, 2003.

A public meeting to present the preferred remedial alternative for OU1 was held at the South Plainfield Municipal Building, 2480 Plainfield Avenue, South Plainfield, New Jersey on June 23, 2003.

II. COMPREHENSIVE SUMMARY OF MAJOR QUESTIONS, COMMENTS, CONCERNS, AND RESPONSES

PART 1: Verbal Comments

This section summarizes comments received from the public during the public comment period, and EPA's responses.

A. SUMMARY OF QUESTIONS AND EPA'S RESPONSES FROM THE PUBLIC MEETING CONCERNING OU1 OF THE CORNELL-DUBILIER ELECTRONICS SITE - JUNE 23, 2003

A public meeting was held June 23, 2003, at 7:00 p.m. at the South Plainfield Municipal Building, 2480 Plainfield Avenue, South Plainfield, New Jersey. Following a brief presentation of

the investigation findings, EPA presented the Proposed Plan and preferred alternative for OU1 of the Cornell-Dubilier Electronics Site, received comments from interested citizens, and responded to questions regarding the remedial alternatives under consideration.

Although the purpose of the public meeting was to take public comments on EPA's preferred remedy for OU1, some commenters had questions/comments about additional operable units such as the status of the RI/FS for OU2 and OU3. Comments and questions raised by the public following EPA's presentation are categorized by relevant topics and presented as follows:

- a. Remedial Action Objectives
- b. Extent of Contamination
- c. Public Acceptance and Short-term Effectiveness
- d. Health
- e. Operable Unit 2
- f. Operable Unit 3

a. Remedial Action Objectives

Comment #1: Several residents commented on the soil cleanup criteria for PCBs. Residents asked why EPA doesn't use the State criterion of 0.49 ppm for PCBs as the remediation goal in this remedy, and whether NJDEP is going to require the implementation of a deed restriction or deed notice on properties that exceed the State of New Jersey residential direct contact soil cleanup criterion of 0.49 ppm for PCBs.

EPA response: EPA's August 1990 guidance, entitled "Guidance on Remedial Actions at Superfund Sites with PCB Contamination", recommends a cleanup goal of 1 ppm for unrestricted residential land use, and EPA is using 1 ppm as its Remediation Goal in this remedy. The State of New Jersey has developed a residential direct contact soil cleanup criterion (RDCSCC) for PCBs of 0.49 ppm. Because this is not a promulgated standard, it is not an "Applicable or Relevant and Appropriate" standard (ARAR) but rather a "To Be Considered" (TBC) criterion. It is possible that in the implementation of the remedy, the State of New Jersey criterion of 0.49 ppm for PCBs may be achieved. On properties where the State criterion is not achieved, NJDEP may elect to take or require additional actions to meet its more stringent standard.

Comment #2: A resident questioned when the State would require additional work to be performed in order to meet the State criterion.

EPA response: It is anticipated that the State of New Jersey will determine whether additional soil must be excavated in order to meet the State criterion prior to the work being completed, so that any additional soil excavation required by the State could be performed at the same time.

Comment #3: A resident asked for clarification on the issue of deed restrictions with respect to the residential properties.

EPA response: Alternative 2 would require the implementation of institutional controls, such as deed notices or use restrictions, to limit future use of the properties because PCB-contaminated soil above 1 ppm would remain on the properties.

b. Extent of Contamination

Comment #4: A resident asked whether EPA would be sampling the homes where removal actions were previously performed. In addition, the commenter asked whether, if exceedances were found at these properties where removal actions were previously conducted, would that indicate that the properties had been re-contaminated from dust migration from the former facility property.

EPA response: As a precaution, the selected remedy includes the re-evaluation of properties cleaned during the removal actions previously conducted to ensure the earlier cleanups are consistent with the selected remedy. Even if exceedances are found at properties previously cleaned, EPA does not believe that would indicate that migration from the facility property is an ongoing problem. A number of actions have been taken at the facility to prevent off-site migration of dust, including fencing off and vegetating the unpaved rear of the facility. EPA believes that there is no longer a migration potential.

Comment #5: Several residents asked if EPA has conducted air monitoring along the fenceline of the industrial park (OU2) to determine whether or not contamination and/or vapors are migrating from the industrial park to the residential properties.

EPA response: EPA has not collected air monitoring data along the fenceline of the industrial park. The need to collect additional data to determine if fugitive dust emissions are present at the industrial park and impacting the surrounding community will be evaluated during the remedial design.

Comment #6: A resident asked how the boundary for the OU1 sampling program was defined. In addition, the resident asked whether the parks located adjacent to the Bound Brook have been

impacted by the former CDE facility and whether residents along the Bound Brook can request sampling on their properties.

EPA response: EPA evaluated the results of the Tier I, Tier II, and Tier III sampling events (performed in the late 1990s by EPA's removal program) and expanded the study area as part of the RI/FS using a worst-case scenario for wind-blown dust or dust caused by traffic, in order to provide a broader scope of the investigation and identify PCB distribution trends. EPA is confident that the RI identified the limits of the problem. The boundaries of the area sampled are not rigidly sampled, and residents near the boundaries who would like their properties sampled may make a request to EPA.

As part of this sampling approach, EPA sampled properties and public right-of-ways within the Bound Brook flood plain, located downstream of the former CDE facility. None of these soil samples exceeded 1 ppm total PCBs. EPA intends to conduct further investigations of the Bound Brook as part of the RI/FS for OU3.

Comment #7: A resident asked how many additional properties will require remediation and the location of the properties.

EPA response: Sampling performed by EPA has identified four properties with PCBs in soil that require remediation. In addition, EPA has conservatively estimated that additional sampling may identify up to 12 affected properties that will require soil cleanup, and seven that will require indoor dust remediation because of elevated PCB levels. The seven properties with indoor dust requiring remediation may or may not be a subset of the properties requiring soil remediation.

The four properties with PCBs in soil that are currently known to require remediation are located on Hamilton Boulevard, Spicer Avenue, and Arlington Avenue. They are not clustered in any one area.

Comment #8: A resident asked why sampling was performed up to Sampton Avenue since there has never been flooding on that street.

EPA response: EPA collected samples on Fred Allen Drive, Schillaci Lane, Oakmoor Avenue, and Lowden Avenue to determine if flooding of the Bound Brook had impacted residential properties located within the floodplain of the Bound Brook. In order to determine any pattern or trends in the data, EPA collected data up to Sampton Avenue.

Comment #9: A resident asked for the sampling results for the Roosevelt school.

EPA response: The average concentration of total PCBs for the samples collected at the Roosevelt School was 0.057 ppm.

Comment #10: A resident asked how the areas requiring additional sampling were targeted and whether other properties can be re-sampled.

EPA response: The additional sampling would typically be performed on properties where curbside sampling revealed elevated levels of PCBs, and where additional data is required to determine whether or not remediation is necessary. Residents whose properties do not meet these criteria may also request sampling.

Comment #11: A resident inquired how soil sampling would be performed at his property, since topsoil had been placed on his property as cover.

EPA response: Prior to conducting the sampling, EPA will coordinate with the owners of the affected properties to determine the location and depths of any cover material. Based on this information, samples will be targeted to be collected below any topsoil that may have been placed on the properties.

Comment #12: A resident asked for the soil results for the areas along Arlington Avenue that have been targeted for additional sampling.

EPA response: PCBs were detected in curbside right-of-way sampling on Arlington Avenue at concentrations ranging from "non detectable" to 2.9 ppm.

Comment #13: A resident asked where the samples for the curbside right-of-way were collected.

EPA response: Samples were typically collected within 1 to 2 feet from the curb and within the first few inches of the ground surface. Additional samples were collected at 16 to 18 inches below ground surface.

Comment #14: A resident asked whether EPA has sampled the storm water catch basins located in the curbside right-of-ways or whether there are any plans to perform that sampling.

EPA response: EPA has not sampled the sediments of the catch basins. However, during the remedial design, this recommendation will be evaluated.

Comment #15: A resident asked for clarification regarding the sampling results on her property and questioned whether the property was safe at the concentrations detected.

EPA response: Sampling performed by EPA detected PCBs in soil at the property in question at a maximum concentration of 44 ppm. PCBs in soil at this property pose a potential health concern and require remediation, but there is no immediate threat to exposure of PCB-contaminated soil at these concentrations. The risk estimates are based on current reasonable maximum exposure scenarios and were developed by taking into account various conservative assumptions about the frequency and duration of an individual's exposure to the surface and subsurface soil, as well as the toxicity of PCBs.

c. Public Acceptance and Short-term Effectiveness

Comment #16: A resident asked what measures EPA will take to protect the residents during the implementation of the remedy from dust contamination resulting from the transport of the contaminated soil along high traffic areas, such as Hamilton Boulevard during remediation.

EPA response: An increase in the potential for dust generation in the surrounding community during the performance of the work is a short-term risk that needs to be managed. This potential impact would be created through construction activities and exposure to the contaminated soil to be excavated and handled. However, proven protective measures including engineering controls and safe work practices would be used to address potential impacts to the community.

Comment #17: An interested citizen asked whether EPA has given any consideration to transporting the contaminated soil by rail.

EPA response: Transportation routes and the method of transportation (e.g. via rail or truck) will be evaluated during the remedial design. The FS assumed truck transportation.

Comment #18: A resident asked what measures will be implemented to ensure that the residential properties along Spicer Avenue are not re-contaminated as a result of future remedial actions at the industrial park.

EPA response: Proven procedures including engineering controls and safe work practices would be used to address potential impacts to the community. In addition, the appropriate air monitoring would be performed, during the implementation of any remedial action at the site.

Comment #19: A resident asked whether the Borough of South Plainfield should implement any changes in its street sweeping program.

EPA response: No changes are required to the Borough's street sweeping program.

Comment #20: A resident asked whether the homes that require remediation should have some type of temporary fencing installed to indicate that the area needs to be remediated and to keep people off of the area until such time as the property has been remediated.

EPA response: Restricting access to areas requiring remediation is not necessary.

d. Health

Comment #21: A resident asked whether there are other contaminants besides PCBs, such as solvents, that the residents should be concerned about.

EPA response: During the earlier removal investigations, it was determined that the contaminant of concern for OU1 was PCBs.

Comment #22: A resident asked whether an average concentration of 0.61 ppm of PCBs in soil is safe.

EPA response: EPA conducted a baseline risk assessment, as part of the RI/FS for the properties in the vicinity of the former CDE facility to determine the current and future effects of PCBs on human health. Based on the August 1990 guidance, entitled "Guidance on Remedial Actions at Superfund Sites with PCB Contamination", a Remediation Goal of 1 ppm was selected. The Remediation Goal of 1 ppm is within EPA's protective risk range.

Comment #23: A resident asked how PCBs can enter a person's body.

EPA response: Exposure pathways for PCBs include ingestion and dermal contact through the skin.

Comment #24: A resident asked for clarification on the term "immediate" as it pertains to risk assessments.

EPA response: EPA has determined that PCBs cause cancer in animals and probably cause cancer in humans. PCBs cause these effects over long periods of time. The risk estimates are based on exposure over a 30 year period.

e. Operable Unit 2

Comment #25: A resident asked for clarification on the cleanup goal for residential properties versus the cleanup goal for the former CDE facility.

EPA response: The cleanup criteria for the soil at the former CDE facility will be presented in the Feasibility Study for Operable Unit 2 and the Proposed Plan for that operable unit.

Comment #26: A resident asked what action will be taken to address the contaminated facility soils, facility buildings, and groundwater.

EPA response: Remedial Actions to address the facility soils and facility buildings (OU2), and groundwater and the Bound Brook (OU3) will be presented in future Proposed Plans and Records of Decision.

f. Operable Unit 3

Comment #27: A resident asked whether any sampling has been or will be performed on the private water supply wells in the area. In addition, the resident questioned whether the excavation of contaminated soil could impact the water quality of these wells.

EPA response: An "unknown source investigation" conducted by the NJDEP in the vicinity of Hamilton Boulevard between 1988 to 1991 revealed significant groundwater contamination consisting of mainly trichloroethene (TCE) and tetrachloroethene (PCE). Due to widespread contamination, all residential wells in the area were reportedly closed and residences were hooked up to a water main providing potable water from another location. As part of the RI for OU3, EPA will be conducting a well survey of any private wells within several miles of the site. If there are any residents in the area who still rely on private wells, the New Jersey Department of Health and Senior Services currently offers sampling of residential drinking water wells at the request of the home owner.

Furthermore, soil sampling of surface and subsurface soils in these vicinity properties has indicated that the PCB contamination is predominantly in the shallow soils (1 to 2 feet

in depth). EPA does not anticipate that the excavation of surface soils will impact the groundwater in this area.

Comment #28: A resident asked if there are other sources of PCB contamination to the Bound Brook.

EPA response: As part of its ongoing investigation of OU3, EPA will evaluate the potential for additional sources of contamination of the Bound Brook. For example, the Bound Brook transects the Woodbrook Road Dump Superfund Site, located in South Plainfield, New Jersey upgradient of the CDE Site. Sampling performed by EPA has revealed PCB contamination at the Woodbrook Road Dump Site.

Comment #29: A resident asked when the sampling along the Bound Brook was performed and whether or not fluctuations in rainfall could have impacted nearby properties, including nearby ball fields.

EPA response: Initial sampling along the banks of the Bound Brook was performed by EPA in 1997. In 1998 and 1999, EPA collected additional samples within the Bound Brook floodplain, including the municipal parks and ball fields. Sampling results revealed PCB concentrations in soil ranging from non-detect to 25 ppm in Veterans Memorial Park. EPA anticipates performing additional investigations of the Bound Brook as part of OU3.

Comment #30: A resident raised a concern that soil sampling has not been performed at the baseball field located south of Belmont Avenue and adjacent to the Bound Brook.

EPA response: The area in question could not have been impacted by the CDE site, but may be impacted by the Woodbrook Road Dump Superfund site. Additional investigations will be performed to determine the impact of the Woodbrook Road Dump Superfund site on properties located downstream of that site and in the floodplain of the Bound Brook.

Comment #31: A resident asked if the use of all-terrain vehicles along the banks of the Bound Brook creates a health threat to the vehicles' users, since the corridor has not been tested.

EPA response: EPA sampled a 2.4 mile stretch of the Bound Brook. This sampling included the north and south banks of the Bound Brook. An evaluation of the data by ATSDR indicated that the levels of PCBs in the sediments and soil of the Bound Brook do not pose an immediate health threat to the recreational user.

Comment #32: A resident asked about fishing in New Market Pond and indicated that there are no signs regarding the advisory.

EPA response: In 1997, NJDEP posted a fish consumption advisory for the Bound Brook and its tributaries. Signs were posted along the Bound Brook and New Market Pond. EPA will work with the Borough of South Plainfield to replace signs that are missing.

Comment #33: A resident asked whether the groundwater contamination at the industrial park has extended into the residential neighborhood and whether there is an indoor air problem as a result of the contaminated groundwater at the industrial park.

EPA response: As part of the investigation of OU3, EPA anticipates collecting data to determine whether vapor intrusion is affecting the residential properties adjacent to the former CDE facility.

Comment #34: Several residents requested information concerning the results of surface water sampling downstream of the industrial park.

EPA response: Surface water sampling conducted by EPA in 1997, downstream of the industrial park revealed the presence of trichlorethene at a maximum concentration of 0.005 mg/L. Although no pesticides or PCB compounds were detected in any of these surface water samples, thirteen metals (aluminum, barium, chromium, copper, iron, potassium, magnesium, manganese, sodium, nickel, lead, vanadium, and zinc) were detected.

PART 2: Written Comments

Comments and concerns that were not addressed at the public meeting were accepted in writing during the public comment period. Written comments have been presented verbatim and identified in italicized print.

B. WRITTEN COMMENTS RECEIVED DURING THE PUBLIC COMMENT PERIOD FROM CORNELL-DUBILIER ELECTRONICS, INC. AND DANA CORPORATION

Comments received from Cornell-Dubilier Electronics and Dana Corporation are categorized as follows:

- a. Proposed Plan
- b. Remedial Investigation Report
- c. Feasibility Study Report

a. Proposed Plan:

In a cover letter to its comments on the RI/FS, the Hamilton Industrial Park Group (HIPG), comprised of Cornell-Dubilier Electronics, Inc. and Dana Corporation, provided the following comment on EPA's Preferred Alternative.

Comment #1: According to the Proposed Plan, USEPA has changed the scope of work from the one defined in the FS, including increasing the number of properties requiring additional sampling for further evaluation. Based on our recent discussions, I understand that this change was prompted by USEPA's use of a NJDEP cleanup criterion of 0.49 mg/kg rather than USEPA's cleanup criterion of 1 mg/kg. Because the NJDEP soil cleanup criterion has not been promulgated, and thus not an ARAR, and given that USEPA does have a regulatory basis for selecting a cleanup criterion of 1 mg/kg, the HIPG strongly opposes basing the scope of work defined in the Proposed Plan on NJDEP's cleanup criterion. In fact, the NJDEP's publication of this criterion specifically states that this criterion "shall not be assumed to...represent the Department's opinion that a site requires remediation". Furthermore, the need for remediation should be based on site-specific risk analysis rather than a non-promulgated generic cleanup criterion.

EPA response: The Selected Remedy requires an investigation of additional properties in the study area, during the remedial design, to determine if additional properties require remediation. The additional sampling would typically be performed on properties where previous curbside sampling exceeded EPA's Remediation Goal of 1 ppm and New Jersey's RDCSCC of 0.49 ppm.

EPA is using 1 ppm for PCBs as its Remediation Goal in this remedy. Based on the data collected to date, in meeting EPA's cleanup levels for PCBs, EPA believes the remedy may also achieve the New Jersey residential direct contact soil cleanup criterion (RDCSCC) of 0.49 ppm for PCBs. If the remedy does not achieve the State criterion of 0.49 ppm for PCBs, the State may elect to pursue additional soil removal, or require that restrictions be placed on properties to prevent future direct contact with soils above 0.49 ppm.

b. Remedial Investigation Report

Comment #2: (Section 1.2.2) Insufficient information is provided regarding the use of the Hamilton Industrial Park after 1962 to assess other sources of contamination or site activities that

could have contributed to potential transport of contamination to off-site locations. In particular, a truck driving school operated on the Hamilton Industrial Park site up until the mid-1990s and an auto junkyard was located between this property and Spicer Avenue during the early 1960s. Post-1962 aerial photographs suggest continued disturbance of the ground surface in the undeveloped portion of the Hamilton Industrial Park site (e.g., March 1969).

EPA response: Additional information regarding the use of the former CDE facility, including additional information for the period after 1962, is included in the RI Report for OU2.

Comment #3: (Section 1.2.3) Insufficient information is provided regarding the history of the residential property development. In particular, sampling and removal action activities uncovered buried debris - how did this material come to be present on these properties? A review of aerial photographs suggests that some of the homes in this area are not the original structures on these properties - when were the current homes constructed?

EPA response: Section 1.2.3 of the RI discusses information obtained from the Borough of South Plainfield regarding residential development in this area. Although the dates of construction for each individual home are not included, the general time frames for the development are included in the RI Report. EPA does not have any specific information concerning possible uses of the residential properties prior to construction of the homes, or the source of buried debris encountered on the properties during prior removal actions.

Comment #4: (Section 2.2) The OU-1 RI WorkPlan (Foster Wheeler 2000) stated that 36 properties were targeted for sampling during the RI.

- How were these initial 36 properties selected for sampling (e.g., previous sampling, adjacent to other contaminated properties, etc)?

EPA response: A set of properties was initially identified based on previous sampling that suggested the presence of contamination but was inconclusive as to the need for remediation, proximity to other contaminated properties, and requests by property owners to have their properties sampled.

Comment #5: (Section 2.2) What was the basis for reducing the number of properties sampled to 20 as reported in the RI Report?

EPA response: The original work plan was modified to also include

curbside right-of-way sampling, so as to attain a more comprehensive set of data for evaluating these neighborhoods.

Comment #6: (Section 2.2) *Five of the 20 properties sampled as part of the RI were not part of the original 36 properties selected in the Work Plan. What was the basis for changing the actual properties to be sampled?*

EPA response: As discussed in the response to Comment A.4 above, EPA wanted to target some properties that were more likely to be contaminated based upon proximity and the results of previous sampling, since a site model indicated wind-blown and relatively shallow contamination. However, the sampling protocol also called for more randomized property selection, as a method of evaluating the accuracy of that site model. Furthermore, at the time EPA targeted properties for sampling in the RI Work Plan, EPA had not obtained access from the property owners. Therefore, additional changes were made as a result of access-related issues.

Comment #7: (Section 2.2) *What was the overall sampling strategy for selecting sampling locations at each property, including the locations for collecting the deep soil samples? (For example, on Property 19 all deep samples were concentrated in one area and on six properties the collection of deep samples varied from the general approach of collecting one deep sample for every five shallow samples).*

EPA Response: The strategy for selecting sampling locations was determined on a property-by-property basis. EPA made an effort to distribute the sampling locations across each property, taking into account the conditions encountered at each property. Regarding Property 19, the 16 to 18 inch samples were concentrated in one area because of refusal encountered by the hand auger when attempts were made to sample in the originally designated areas.

Comment #8: (Section 4.0) *The RI suggests that "nearby areas were suspected to have the potential to be contaminated with PCBs, via airborne entrainment of contaminated particulates (i.e., fugitive dust emissions) and/or transport by vehicles." However, deep soil contamination (e.g., below 1-foot) and evidence of fill material was also observed on sampled properties, which suggests that there are other/additional mechanisms by which contamination may be present on these properties (see Section 3.4.2). Were additional mechanisms for the presence of PCBs on these properties also considered in developing the potential scope of the investigation? For example, the 1969 aerial photograph*

suggests disturbance of the ground surface in the undeveloped portion of the Hamilton Industrial Park site.

EPA Response: The results of the RI support the conclusion regarding the mechanisms by which contamination may be present on these properties. One of the goals of the RI was to test various possible contaminant migration routes, including via flooding near the Bound Brook, and via wind-entrained dust near the industrial park. The comment suggests another possible migration route, through the movement of fill material or dumping, from a period that may even precede residential development. The RI did find fill material (debris and non-native soil) in some sampling locations, and a few of the deeper samples showed elevated PCB levels; however, the findings generally support a dust-borne migration pattern. As stated above in EPA's response to Comment B.3, EPA does not have any specific information concerning possible uses of the residential properties prior to construction of the homes, or the source of buried debris encountered on the properties during sampling or prior removal activities. EPA will evaluate any evidence that is presented to indicate that other sources of PCB contamination exist.

Comment #9: (Section 4.1) *The RI Report indicates that an additional property was to be remediated under the removal program by the end of 2001. Was this work completed?*

EPA response: As stated in the Proposed Plan, this work has not been completed. This property will be addressed consistent with the requirements of the selected remedy.

Comment #10: (Section 4.4.17) *Why was Property 17, which had been characterized as part of the Tier II removal action program, resampled as part of the RI? Why was this sampling targeted to a specific 2-inch depth interval?*

EPA response: Property 17 was resampled as part of the RI because the property owner indicated to EPA that soil from the excavation of a basement had been placed as cover in the rear of the property. As a result, the property owner claimed that the sampling that was performed during the Tier II sampling event was not representative of the surface soils. The resampling during the RI did not indicate a contamination problem on the property.

Comment #11: (Section 4.5) *Results for Tier II Property DD should be noted as reflecting results for a sample having elevated detection limits, and the 95% UCL for this property excluding this data point should also be presented. These results were discussed in Section 2.3.7 of the Tier II Residential Property*

Removal Action Final Report, South Plainfield, New Jersey (ENVIRON, January 2000). According to USEPA's Risk Assessment Guidance - Part A, elevated detection limits should be censored if these values would cause the calculated exposure concentration to exceed the maximum detected concentration.

EPA response: As indicated in the Proposed Plan and the Decision Summary, the Selected Remedy requires a re-evaluation of the 13 residential properties where removal actions have already been performed, to ensure that those cleanups are consistent with the remediation goals established here. EPA will evaluate the results from Tier II Property DD as part of that process.

Comment #12: (Section 5.2.1) This section refers to "improper" disposal practices [at the former CDE facility]. The nature of the disposal activities should be discussed in terms of the "state of the practice" at the time these activities may have occurred (i.e., what was the required or common industry practice at the time these activities reportedly occurred?).

EPA response: EPA acknowledges that, based on the information provided, the disposal practices at the former CDE facility may have been consistent with common industry practice, for at least some of the period of time during which disposal occurred.

Comment #13: (Section 6.3.1) The RI Report acknowledges that current land uses will likely continue into the future. However, it is then assumed for the human health risk assessment that all properties could be used for residential purposes. This contrarily assumes that current uses would change in the future. This assumption should be confirmed on a property-by-property basis before proceeding with remedial decision making. For example, both Property 1 and Property 18 are currently commercial-use properties, and given the Borough of South Plainfield's formally adopted commercial redevelopment plan for this area, it would appear extremely unlikely, as well as inconsistent with the local redevelopment and land use planning, that these properties will be converted to residential use in the future. (A copy of the Redevelopment Plan for the Designated Redevelopment Area in the Vicinity of the Hamilton Boulevard Industrial Site ["Redevelopment Plan"; THP, April 2002] and the Borough of South Plainfield's Ordinance #1597 approving this Redevelopment Plan are provided as an attachment to these comments.)

If it is assumed that the current land uses will continue into the future, then the risks to indoor workers at the commercial

properties would be lower than those calculated under a residential land use scenario, and as a result, Properties 1 and 18 would likely not be identified for remediation (the RME risk estimates for an adult resident only marginally exceeded an HQ of 1.0 for Property 18, and were within the acceptable cancer risk range for both properties). For example, using standard defaults (Supplemental Soil Screening Guidance; USEPA draft 2001), the risks to indoor workers at Properties 1 and 18 would be:

Property 1: HQ = 0.06 CRL = 8×10^{-7}
Property 18: HQ = 1 CRL = 1×10^{-5}

This indicates that, if current and reasonably likely future uses were considered in the risk assessment (given the Borough of South Plainfield's promulgated redevelopment plans for this area), remediation of Properties 1 and 18 would not be warranted.

EPA response: The CDE facility is bounded by residential, commercial, and municipal properties. Based on the identified current and potential land uses and the most likely current and potential future land uses, the most likely current populations at risk of exposure are residents and commercial/municipal workers. Residential land use is most often associated with the greatest exposures based on frequency and duration that could result from current and future ingestion and direct contact with contaminated surface and subsurface soil. Therefore, the baseline risk assessment focused on health effects associated with a residential land use scenario, although there are residential, commercial, and municipal properties under evaluation. Evaluating a residential scenario was considered "reasonable maximum exposure", and therefore most protective of human health.

c. Feasibility Study

Comment #14: (Section 1.2.2.1) Insufficient information is provided regarding the use of the Hamilton Industrial Park after 1962 to assess other sources of contamination or site activities that could have contributed to potential transport of contamination to off-site locations. In particular, a truck driving school operated on the Hamilton Industrial Park site up until the mid-1990s and an auto junkyard was located between this property and Spicer Avenue during the early 1960s. Post-1962 aerial photographs suggest disturbance of the ground surface in the undeveloped portion of the Hamilton Industrial Park site (e.g., March 1969).

EPA response: See EPA response to Comment B.2, above.

Comment #15: (Section 1.2.2.2) Insufficient information is provided regarding the history of the residential property development. In particular, sampling and removal action activities uncovered buried debris - how did this material come to be present on these properties? A review of aerial photographs suggests that some of the homes in this area are not the original structures on these properties - when were the current homes constructed?

EPA response: See EPA response to Comment B.3, above.

Comment #16: (Section 1.2.3.2) Three of the 19 properties sampled during the RI were determined to need remediation based [on] the findings of [the] baseline risk assessment. Additionally, 16 Right-of-Way (ROW) samples collected during the RI and Tier III removal action investigation (4 property ROWs sampled in May 1998) exhibiting PCB concentrations above the EPA Soil Screening Level (SSL) of 1 mg/kg were identified. EPA assumed an additional 25 properties will need to be sampled based on a location adjacent to ROWs with elevated PCB levels, and/or along major thoroughfares exiting the Site. It is unclear where these 25 properties are located and specifically how these properties were selected. The criteria for identifying these properties are fundamental to the remedy analysis and selection, and will ultimately be necessary for moving forward for remedy implementation.

EPA Response: Based on the investigations performed to date, EPA targeted approximately 59 properties where more extensive sampling is called for. These areas are identified in Appendix I, Figure 5, of the Decision Summary. Figure 5 identifies the properties where additional testing is necessary because the curbside right-of-way sampling results exceeded EPA's Remediation Goal of 1 ppm and New Jersey's RDCSCC of 0.49 ppm.

Comment #17: (Section 1.2.4) The first paragraph of this section suggests that the principal transport mechanism that resulted in PCB contamination on off-site properties is via contaminated particulates (i.e., fugitive dust emissions) and/or transport by vehicles. However, deep soil contamination (e.g., below 1-foot) and evidence of fill material was also observed on sampled properties, which suggests that there are other/additional mechanisms by which contamination may be present on these properties (see Section 3.4.2). For example, the 1969 aerial photograph suggests disturbance of the ground surface in the undeveloped portion of the Hamilton Industrial Park site.

EPA response: See EPA response to Comment B.8, above.

Comment #18: (Section 1.2.5) The fourth paragraph summarizes the results of the human health risk assessment for Properties 1 and 18 based on an assumption of residential use of these properties. The RI Report acknowledges that current land uses will likely continue into the future. However, it is assumed for the human health risk assessment that all properties could be used for residential purposes. This contrarily assumes that current uses would change in the future. This assumption should be confirmed on a property-by-property basis before proceeding with remedial decision making. For example, both Property 1 and Property 18 are currently commercial-use properties, and given the Borough of South Plainfield's formally adopted commercial redevelopment plan for this area, it would appear extremely unlikely, as well as inconsistent with local redevelopment and land use planning, that these properties will be converted for residential in the future. If it is assumed that the current land uses will continue into the future, then the risks to indoor workers at the commercial properties would be lower than those calculated under a residential land use scenario, and as a result, Properties 1 and 18 would likely not be identified for remediation.

EPA response: See EPA response to Comment B.13, above.

Comment #19: (Section 2.4.3.5) The first two subsections discuss possible management of excavated soils as RCRA hazardous. Soils containing PCBs as the only contaminant are not RCRA regulated hazardous wastes.

- Is there any evidence that the soil to be remediated will be characteristically hazardous under RCRA?

EPA response: Characterization will be performed during the remedial design and remedial action to determine if the excavated soil meets the definition of a characteristic hazardous waste pursuant to RCRA.

Comment #20: (Section 2.4.3.5) Why are RCRA landfill requirements rather than TSCA landfill requirements discussed in this section?

EPA response: Both RCRA and TSCA landfill requirements were identified in this section to address contaminated soil at the affected properties.

Comment #21: (Section 2.4.3.5) How would PCB concentrations be used to determine the need for a RCRA Subtitle C landfill versus a TSCA landfill? A better comparison would be to assess the need

for a Subtitle D landfill versus a TCSA landfill based on PCB concentrations.

EPA response: Soils disposed of off-site containing PCB concentrations greater than 50 ppm require disposal in a TSCA landfill. Based upon the data collected to date, most of the excavated soil is expected to be placed in a Subtitle D landfill.

Comment #22: (Section 2.4.3.5) The second two subsections discuss the possible management of excavated soils as non-hazardous/non-TSCA regulated. The assessment of these management options fails to consider the placement of non-hazardous/non-TSCA regulated soils on the Hamilton Industrial Park site. While this management approach was considered in terms of construction of a RCRA/TSCA landfill cell on the Hamilton Industrial Park Site (see first subsection), it is not considered as an option under the subsection entitled "On-site Non-Hazardous/Non-TSCA Disposal." Given the planned redevelopment of the Hamilton Industrial Park site, these soils could be integrated into the grading associated with an on-site remedial option.

EPA response: The disposal of non-hazardous/non-TSCA regulated soils excavated from nearby properties onto the industrial park was not evaluated since EPA has not selected a final remedy, or even completed the RI/FS, to address the contaminated soils at the industrial park. Thus, the viability of such an on-site remedial action is premature. EPA is aware that the Borough of South Plainfield has adopted a resolution, designating the Hamilton Industrial Park as a "Redevelopment Area".

Comment #23: (Section 3.2.2 and 3.2.3) Alternatives 2 and 3 incorporate the cleaning of the interiors of homes based on pre-design interior dust sampling.

What are the Remedial Action Objectives and PRGs for interior dust?

EPA response: The Remediation Goal for PCBs in interior dust is 1 ppm.

Comment #24: (Section 3.2.2 and 3.2.3) What are the remedial technologies considered for addressing the interiors of homes? What remedial technologies were screened to determine that these are effective technologies?

EPA response: Past removal actions have identified a number of successful remediation strategies that can be employed. The cleaning procedures to be employed where PCB-contaminated dust is

encountered were selected based on EPA's experience on performing indoor dust remediation at the Site, and will consist of: wiping down all horizontal exposed surfaces; vacuuming floors, drapes, upholstery, molding and window casings using HEPA vacuums; washing all tile, linoleum and wood floors; steam cleaning or replacing carpets and area rugs; cleaning heating and cooling ducts; and cleaning or replacing all filters on air handling equipment.

Comment #25: (Section 4.2) *What was the basis for assuming that 12 of the additional 25 properties (48%) to be investigated during the pre-design studies would need some remediation when only 3 of the 19, or 16%, sampled during RI were identified for remediation?*

EPA response: EPA has conservatively estimated, based upon its experience with testing performed at properties nearby the CDE facility, that 12 out of the at least 59 properties (or approximately 20%) where additional soil sampling is called for will require remediation.

Comment # 26: (Section 4.2) *What is the basis for assuming that 7 additional properties would need interior dust cleaning?*

EPA response: EPA has not identified a pattern to the indoor dust measurements. The seven additional properties that would require indoor dust remediation is an estimate based on EPA's experience at the site.

Comment #27: (Section 4.2) *Was sampling of interiors performed during the RI?*

EPA response: No additional sampling of interiors was performed by EPA during the RI.

Comment #28: (Section 4.2) *What type of sampling [of interiors] is proposed for the pre-design studies?*

EPA response: Interior wipe and vacuum sampling will be performed.

Comment #29: (Section 4.2) *What concentration will trigger the need for interior cleaning, and how will the effectiveness of the cleaning be determined?*

EPA response: The Remediation Goal for PCBs in interior dust is 1 ppm. Post-cleaning indoor dust samples would be collected to determine the effectiveness of the cleaning.

Comment #30: (Section 4.2) Were the implementation risks associated with the transport of excavated soils along local roads quantified?

EPA response: These risks were evaluated and discussed in the "Short-term Effectiveness" section of the Proposed Plan and Record of Decision.

Comment #31: (Section 4.2) Why was an excavation depth of 2-feet assumed for any potential property excavations (i.e., those properties that are to be sampled during the pre-design studies)? As reported in the Tier I Residential Property Removal Action Final Report (ENVIRON, July 1999) and Tier II Residential Property Removal Action Final Report (ENVIRON, January 2000), most excavations conducted during the removal action program were 1-foot in depth or less.

EPA response: Although the excavation limits at most of the Tier I and Tier II properties were one foot in depth or less, some of these properties required excavation to a depth of several feet. Therefore, based on the available data, for cost estimation purposes, EPA conservatively estimated that the additional properties will require excavation to a depth of two feet. However, additional sampling will be performed during the remedial design to define the actual excavation depths on each affected property and confirmatory sampling will ensure that the excavations have attained the Remediation Goal.

Comment #32: (Section 4.2) The following assumptions appear to be inconsistent with the general approach presented in Appendix C.

Specific Excavation Area Comments:

Area 1B: Sample RS01-04 is 1.2 mg/kg at 16-18", but the excavation is assumed to be a 1 foot depth (See Fig. C-1)

EPA response: Based on the data collected at this property, it is anticipated that the average excavation depth will be 1 foot. For example, although sample RS01-04 is 1.2 mg/kg at 16 to 18 inch, sample RS01-09 is 0.67 mg/kg at 0 to 2 inch. Furthermore, the excavation limits are estimates based on the data collected during the RI. Additional sampling will be performed during the remedial design to determine the actual depth of excavation. In addition, post-excavation sampling will be conducted to ensure that the cleanup goals are achieved.

Comment #33: (Section 4.2) Area 13A: only one of the two subsurface samples is greater than 1 mg/kg, yet the entire 756 sf area is assumed to be a 2 foot deep excavation (See Fig. C-2)

EPA response: The excavation limits are estimates based on the data collected during the RI. Additional sampling will be performed during the remedial design to determine the actual depth of excavation. In addition, post-excavation sampling will be conducted to ensure that the cleanup goals are achieved. As a result, the estimated volume of soil that requires excavation may be reduced or increased.

Comment #34: (Section 4.2) Area 18A: only one of the two subsurface samples is greater than 1 mg/kg, yet the entire 6,616 sf area is assumed to be a 2 foot deep excavation (See Fig. C-3)

EPA response: See EPA response to Comment B.33, above.

Comment #35: (Section 4.2) Cost Estimation: General: What is the basis for the cost to clean interiors of houses of \$20,000/home (See Table B-2 and B-3)?

EPA Response: This estimate is based on the actual costs incurred by EPA to clean the interiors of the Tier I and Tier II homes.

C. WRITTEN COMMENTS RECEIVED DURING THE PUBLIC COMMENT PERIOD FROM THE SOUTH PLAINFIELD ENVIRONMENTAL COMMISSION

Comment #1: New Jersey Department of Environmental Protection's residential cleanup standard of 0.49 ppm is lower than US EPA's standard of 1 ppm. This difference is causing some uneasiness and an adversarial atmosphere that is unnecessary and could delay action. The Commission recommends that EPA work with the State to resolve the standards conflict before work begins. The Commission would like to see the properties cleaned to the level of the NJDEP's standard, and hopes that a means to achieve this can be found.

EPA response: EPA is using 1 ppm as its Remediation Goal for PCBs in this remedy and has no technical or legal basis to use 0.49 ppm. Based on the data collected to date, in meeting EPA's cleanup levels for PCBs, EPA believes the remedy may also achieve the New Jersey RDCSCC. If the remedy does not achieve the State RDCSCC, NJDEP may elect to pursue additional soil removal, or require that restrictions be placed on properties to prevent future direct contact with soils above 0.49 ppm. Furthermore, EPA does not believe that this approach would create any delay the implementation of the remedy.

Comment #2: Discovery of PCB contamination along the Borough's right of way suggests that contaminated dust has settled in the street. Spicer Avenue looks like a quiet, residential side street, but it is the main route to the Borough's solid waste and recycling facilities as well as the ball fields. It is a heavily traveled road, and has been for decades. Passing vehicles probably have moved contaminated dust along the roadway. The Commission believes that EPA should include testing the stormwater catch basins in the sampling program. If, over the years, contaminated dust has been continually blown off-site onto the roadway, then it has been continually washed into the storm drains by rain. If there are significant PCB concentrations in the catch basins, they will serve as an ongoing source of PCB input into the Bound Brook. Although surface water will be addressed as part of OU3, the commission believes that sampling the catch basins are in the right of ways that will be resampled.

EPA response: During the remedial design, this recommendation will be evaluated.

ATTACHMENT A

PROPOSED PLAN

847590096

Superfund Program Proposed Plan

Cornell-Dubilier Electronics Site June 2003

U.S. Environmental Protection
Agency, Region II



EPA ANNOUNCES PROPOSED PLAN

This Proposed Plan identifies the Preferred Alternative for the remedy to address contaminated soil at properties in the vicinity of the Cornell-Dubilier Electronics (CDE) facility and provides the rationale for this preference. The Preferred Alternative calls for the excavation and off-site disposal of soils contaminated with polychlorinated biphenyls (PCBs) on residential, commercial, and municipal properties nearby the CDE facility, and would be the final remedy for those properties. The preferred alternative would require an investigation of additional properties in the study area, during the remedial design, to determine if additional properties require remediation.

In 1997, EPA began collecting surface soil and interior dust samples from residential properties near the CDE facility. The results of the sampling revealed PCBs in soil and interior dust that posed a potential health concern for residents of several of the properties tested. These investigations led to removal actions at 13 residential properties, conducted from 1998 to 2000. Properties with PCBs in soil and interior dust that posed a potential health threat to residents were cleaned and contaminated soil was removed. In 2000, EPA expanded the investigation and began collecting soil samples from properties further from the CDE facility. This sampling revealed 3 additional properties with PCBs in soil that pose a potential health threat to residents. In addition, the sampling revealed that there are some properties where more extensive sampling is called for. Based upon EPA's experience with testing performed at properties nearby the CDE facility, EPA has conservatively estimated that additional sampling is expected to identify up to 12 affected properties that will require soil cleanup or that will require interior dust remediation because of elevated PCB levels. A projected 2,100 cubic yards of contaminated soil would be excavated from the properties requiring soil cleanup. The additional sampling would typically be performed on properties where right-of-way sampling revealed elevated levels of PCBs, however, there was insufficient data to determine whether or not remediation is required. The sampling would include exterior soils and the collection of dust samples from the interior of homes. Based on the investigations performed to date, EPA has targeted at least

Dates to remember:

MARK YOUR CALENDAR

PUBLIC COMMENT PERIOD:

June 16 - July 16, 2003

U.S. EPA will accept written comments on the Proposed Plan during the public comment period.

PUBLIC MEETING:

June 23, 2003

U.S. EPA will hold a public meeting to explain the Proposed Plan and all of the alternatives presented in the Feasibility Study. Oral and written comments will also be accepted at the meeting. The meeting will be held at Borough Hall, 2480 Plainfield Avenue, South Plainfield, New Jersey at 7:00 p.m.

For more information, see the Administrative Record at the following locations:

U.S. EPA Records Center, Region II
290 Broadway, 18th Floor.
New York, New York 10007-1866
(212)-637-3261
Hours: Monday-Friday - 9 am to 5 pm

South Plainfield Library
2484 Plainfield Avenue
South Plainfield, New Jersey 07080
(908) 754-7885
Hours:

Monday, Wednesday, and Thursday - 10 am to 9 pm
Tuesday and Friday - 10 am to 6 pm

59 properties where additional soil sampling is called for. EPA's estimate of approximately 12 affected properties is based upon EPA's experience with testing performed at properties nearby the CDE facility and an analysis of the existing data to predict how many additional affected properties will be found by further investigations. In addition to these newly identified properties, EPA's proposed remedy would re-evaluate the removal actions already conducted at 13 residences, to insure that those cleanups are protective, and take additional remedial actions at those properties, if warranted.

The Proposed Plan includes summaries of all the cleanup alternatives evaluated for use at these properties. This document is issued by the U.S. Environmental Protection Agency (EPA), the lead agency for site activities, and the

New Jersey Department of Environmental Protection (NJDEP), the support agency. EPA, in consultation with NJDEP, will select a final soil remedy for these properties after reviewing and considering all information submitted during the 30-day public comment period. EPA, in consultation with NJDEP, may modify the Preferred Alternative or select another response action presented in this Plan based on new information or public comments. Therefore, the public is encouraged to review and comment on all the alternatives presented in this Proposed Plan. A final remedy to address the facility soils, facility buildings, groundwater, and the Bound Brook will be presented in future Proposed Plans and Records of Decision (RODs).

EPA is issuing this Proposed Plan as part of its community relations program under Section 117(a) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, or Superfund). This Proposed Plan summarizes information that can be found in greater detail in the CDE Remedial Investigation and Feasibility Study (RI/FS) reports and other documents contained in the Administrative Record file for this site. EPA and NJDEP encourage the public to review these documents to gain a more comprehensive understanding of the site and Superfund activities that have been conducted at the site.

SITE HISTORY

The CDE facility is located at 333 Hamilton Boulevard in South Plainfield, Middlesex County, New Jersey. The fenced 26-acre facility is bounded on the northeast by the Bound Brook and the former Lehigh Valley Railroad, Perth Amboy Branch (presently Conrail); to the southeast by the Bound Brook and the South Plainfield Department of Public Works property; to the southwest, across Spicer Avenue, by single-family residential properties; and to the northwest, across Hamilton Boulevard, by mixed residential and commercial properties (see Figure 1). CDE operated at the facility from 1936 to 1962, manufacturing electronic components, including capacitors. It is reported that CDE also tested transformer oils at the facility. It is alleged that during its operations, CDE dumped or buried PCB-contaminated materials and other hazardous substances directly on the facility soils. These activities led to widespread chemical contamination at the facility, as well as migration of contaminants to areas adjacent to the facility. PCBs have been detected in the groundwater, soils and in building interiors at the industrial park, at adjacent residential, commercial, and municipal properties and in the surface water and sediments of the Bound Brook. The facility, currently known as the Hamilton

Industrial Park, consists of 18 buildings and is occupied by several commercial businesses. Since 1962, over 100 companies have operated at the facility as tenants.

In June 1994, at the request of NJDEP, soil, surface water and sediments at the facility were sampled and analyzed by EPA. The results of the sample analyses revealed that elevated levels of PCBs, volatile organic compounds (VOCs), and inorganics were present at the site.

As a result of the contamination found at the facility, EPA ordered the owner of the facility property, D.S.C. of Newark Enterprises, Inc. (DSC), a potentially responsible party (PRP), to perform a removal action in 1997 to mitigate risks associated with contaminated soil and surface water runoff from the facility. The removal action included paving driveways and parking areas in the industrial park, installing a security fence, and implementing drainage controls.

In October and November 1997, EPA collected soil and interior dust samples from residential properties on Spicer Avenue, near the industrial park. EPA and the Agency for Toxic Substances and Disease Registry (ATSDR) reviewed the data obtained from this sampling and concluded that exposure to PCBs in dust and soil posed a potential health concern for residents of several of the properties tested. To limit the potential for exposure to PCBs until a final remedy could be selected, EPA initiated another removal action to clean the interiors of seven homes on Spicer Avenue, Garibaldi Avenue, and Hamilton Boulevard. EPA performed interior cleaning on seven properties, and ordered a group of PRPs for the site to remove contaminated soil from six properties. Interior dust remediation was completed in April 1998, and removal of PCB-contaminated soil was completed in September 1999.

Because of contamination found on residential properties in 1997, in 1998, EPA expanded its investigation to Delmore Avenue and Hamilton Boulevard near the industrial park. Again, PCBs were found in dust and soil that posed a potential health concern for residents. EPA cleaned the interiors of eight homes on Delmore Avenue and Hamilton Boulevard, and ordered the PRPs to remove contaminated soil from seven properties. This second group of removal actions was completed in January 2000, limiting the potential for exposure until a final remedy could be selected.

In July 1998, EPA included the CDE site on its National Priorities List.

In 1999, EPA conducted a preliminary investigation of the Bound Brook to evaluate the potential impacts of contamination on human health and the environment. Elevated levels of PCBs were found in fish and sediments of the Bound Brook. As a result of these investigations, NJDEP issued a fish consumption advisory for the Bound Brook and its tributaries, including New Market Pond and Spring Lake.

ENFORCEMENT

PRPs for the site include Cornell-Dubilier Electronics Corporation (CDE), Dana Corporation, Dana Corporation Foundation, and Federal Pacific Electric Company. In addition, DSC, the current owner of the Hamilton Industrial Park, has been named as a PRP. Four administrative orders have been issued to perform portions of the removal actions required at the site. The first administrative order to DSC, issued in 1997, required the installation and maintenance of site stabilization measures to limit the movement of contaminants from the industrial park. These actions included paving driveways and parking areas in the industrial park, installing a security fence and implementing drainage controls.

In 1998 and 1999, administrative orders addressed soil removal work from six properties on Spicer Avenue (referred to by EPA as the "Tier I" properties), and from seven properties on Delmore Avenue and Hamilton Boulevard (referred to by EPA as Tier II), respectively. DSC and Cornell-Dubilier Electronics signed on to the 1998 administrative order and Dana Corporation and Cornell-Dubilier Electronics signed on to the 1999 administrative order. EPA also issued a participate and cooperate order in 1999 to Federal Pacific Electric and DSC for the Tier II properties. In April 2000, EPA ordered DSC to remove PCB-contaminated soil from one additional property on Spicer Avenue. DSC agreed to perform the work required under the order, but failed to do so. EPA now plans to undertake this removal action later this year.

In July 1998, EPA offered the PRPs an opportunity to perform to perform a comprehensive study of the site, called a Remedial Investigation and Feasibility Study (RI/FS), to help determine the nature and extent of contamination. After efforts to agree on the scope of the remedial investigation required at the site were unsuccessful, EPA elected to perform the RI/FS using federal funds.

In 2000, CDE and Dana Corporation initiated discussions

with the Borough of South Plainfield regarding the future redevelopment of the Hamilton Industrial Park, and how that redevelopment might be accomplished as part of a remedy for the facility soils and buildings. EPA is participating in this future-use planning for the facility as part of a future FS.

SITE CHARACTERISTICS

To expedite the cleanup of the CDE site, EPA has divided the site into remedial action phases or operable units (OUs). Operable Unit 1 (OU1) addresses residential, commercial, and municipal properties in the vicinity of the CDE facility. The second operable unit (OU2) will address the remediation of source materials, including contaminated facility soils and buildings. The third and final operable unit (OU3) will address the contaminated groundwater and contaminated sediments at the Bound Brook.

Sampling Approach

EPA targeted a group of 19 residential, commercial, and municipal properties in the vicinity of the CDE facility for extensive surface and subsurface PCB testing. Some of these 19 properties were in areas where previous testing had indicated a higher likelihood of finding elevated PCB levels, while others were in areas further from the facility, where no elevated PCB levels were anticipated.

EPA also collected samples along the curb-side right-of-ways in areas around the CDE facility, to provide a broader scope to the investigation and identify PCB distribution trends that would not be found by sampling individual properties. During the earlier removal investigations, EPA had performed curb-side surveys of Delmore, Arlington, Hancock and Belmont Avenues (referred to by EPA as Tier III). The Tier III curb-side survey consisted of 74 surface soil samples. Only 9 samples were found with concentrations of PCBs in excess of EPA's Soil Screening Level for direct ingestion and dermal contact of 1 part per million (ppm).

During the summer of 2000, EPA collected samples at 807 locations as part of the OU1 RI. In addition to the 19 targeted properties, the curb-side sampling was expanded in the RI to the right-of-ways of 13 roadways in the vicinity of the CDE facility, including public right-of-ways within the Bound Brook flood plain, located downstream (northwest) of the CDE facility. Only 25 of the 807 RI samples were found with concentrations of PCBs in excess of EPA's 1 ppm Soil Screening Level. The soil remedial investigation indicated the following:

Surface Contamination

- Of the 74 Tier III surface soil samples collected prior to the start of the RI, PCB concentrations ranged from 0.022 ppm to 2.9 ppm. Of these 74 samples, only 9 samples exceeded the EPA Soil Screening Level of 1 ppm total PCBs.
- Of the 630 surface soil samples collected during the RI, PCB concentrations ranged from non-detect to 57 ppm. Of these 630 samples, only 20 samples exceeded the EPA Soil Screening Level of 1 ppm total PCBs.

Subsurface Contamination

- Of the 177 subsurface soil samples collected at 16 to 18-inches below ground surface, only five samples exceeded the EPA Soil Screening Level of 1 ppm total PCBs. Concentrations in three of the five samples had an average of 1.3 ppm, and the fourth and fifth samples had concentrations of 44 ppm and 310 ppm.

Results from the 19 Targeted Properties

- Eighteen of the 25 RI samples found with concentrations of PCBs in excess of EPA's Soil Screening Level of 1 ppm were found during this phase of the investigation. Of the 19 properties surveyed (approximately 20 samples per property), only three properties were identified with elevated levels of PCBs in soil that might pose a risk to human health or the environment.

Results from the Curbside Right-of-Way Sampling

- Seven of the 25 RI samples found with concentrations of PCBs in excess of EPA's Soil Screening Level of 1 ppm were found during this phase of the investigation. Right-of-way sampling indicated more frequent detections on blocks nearer the CDE facility and on high-traffic streets like Hamilton Boulevard and New Market Avenue. These data trends support a pattern of wind-blown or vehicle-carried contamination from the facility.

Bound Brook Floodplain Property Sampling

- None of the 174 surface and subsurface soil samples collected from residential properties and public right-of-ways within the Bound Brook floodplain, located downstream (northwest) of the CDE facility, exceeded the EPA Soil Screening Level of 1 ppm total PCBs.

Additional Data Needs

The majority of the PCB measurements detected during the RI were in the surface samples, collected in the first few inches of soil. EPA analyzed data from the RI and the earlier removal investigations, and has targeted at least 59 properties where additional soil sampling is called for. Figure 2 illustrates the study area where additional testing is necessary. Figure 3 identifies the locations of curbside right-of-way sampling that exceed EPA's Soil Screening Level of 1 ppm and the NJDEP's criteria of 0.49 ppm. Based upon EPA's experience with the testing performed to date, EPA has conservatively estimated that approximately 12 properties would be identified with at least some elevated PCB levels during these expanded property investigations.

In addition, during earlier removal activities, PCBs were measured in residential indoor dust, though the dust measurements were sporadic in nature and not necessarily correlated with higher levels of PCBs in surface soils. Unlike the soil sampling analysis described above, EPA has not identified a pattern to the indoor dust measurements, though additional indoor dust testing for PCBs is called for. EPA anticipates that the dust sampling would be performed on a subset of the 59 properties identified for soil sampling. EPA has conservatively estimated that up to seven additional properties will be identified with elevated PCBs in indoor dust during these expanded property investigations.

The number of affected properties, referenced in this Proposed Plan with elevated levels of PCBs, is an estimate used to calculate the approximate costs of the cleanup alternatives. The precise number of properties that would require either soil remediation or interior cleaning under this proposed OU1 remedy would be determined upon the completion of the additional sampling.

SCOPE AND ROLE OF THE ACTION

As previously stated, this Proposed Plan discusses the preferred alternative for addressing PCB-contaminated soils at residential, commercial, and municipal properties in the vicinity of the CDE facility that are above EPA's acceptable risk range. Future Proposed Plans will address other contamination problems posed by the site. EPA's remedial investigations of the facility soil and buildings contamination, the groundwater, and sediment contamination are ongoing. EPA plans to complete an OU2 RI/FS for the facility soils and buildings in 2003. EPA's findings to date indicate the presence of "principal

threat" wastes on the facility. No principal threat wastes were identified at the OUI residential, commercial, and municipal properties.

WHAT IS A "PRINCIPAL THREAT"?

The NCP establishes an expectation that EPA will use treatment to address the principal threats posed by a site wherever practicable (NCP Section 300.430(a)(1)(iii)(A)). The "principal threat" concept is applied to the characterization of "source materials" at a Superfund site. A source material is material that includes or contains hazardous substances, pollutants or contaminants that act as a reservoir for migration of contamination to groundwater, surface water or air, or acts as a source for direct exposure. Contaminated groundwater generally is not considered to be a source material; however, Non-Aqueous Phase Liquids (NAPLs) in groundwater may be viewed as source material. Principal threat wastes are those source materials considered to be highly toxic or highly mobile that generally cannot be reliably contained, or would present a significant risk to human health or the environment should exposure occur. The decision to treat these wastes is made on a site-specific basis through a detailed analysis of the alternatives using the nine remedy selection criteria. This analysis provides a basis for making a statutory finding that the remedy employs treatment as a principal element.

SUMMARY OF SITE RISKS

As part of the RI/FS, EPA conducted a baseline risk assessment to estimate the current and future effects of contaminants on human health and the environment. A baseline risk assessment is an analysis of the potential adverse human health and ecological effects caused by hazardous substance release from a site in the absence of any actions or controls to mitigate these under current and future land uses. The CDE facility is bounded by residential, commercial, and municipal properties. Based on the identified current and potential future land uses, the most likely current populations at risk of exposure are residents and commercial/municipal workers. Residential land use is most often associated with the greatest exposures based on frequency and duration that could result from current and future ingestion and direct contact with contaminated surface and subsurface soil. Therefore, the baseline risk assessment focused on health effects to residential land use scenario, although there are residential, commercial, and municipal properties under evaluation. Evaluating a residential scenario was considered "reasonable maximum exposure," and therefore most protective of human health.

Human Health Risks

EPA has promulgated requirements for the management of PCB wastes as directed by Toxic Substances Control Act (TSCA), and these TSCA requirements would be

applicable to the management of PCB contamination at this site. These requirements provide a risk-based approach for managing PCB wastes. Consistent with this risk-based approach, EPA conducted a baseline risk assessment, as part of the RI/FS, for residential, commercial, and municipal properties in the vicinity of the CDE facility to determine the current and future effects of PCBs on human health. In conducting the risk assessment, a preliminary remediation goal (PRG) of 1 ppm for soils was selected based on the August 1990 guidance, entitled "A guide on Remedial Actions at Superfund Sites with PCB Contamination" and a cleanup level of 1 ppm was selected. The cleanup level of 1 ppm is within EPA's protective risk range of 10^{-4} to 10^{-6} . For known or suspected carcinogens, EPA has established an acceptable cancer risk range of one-in-a million (1×10^{-6}) to one-in-ten thousand (1×10^{-4}). Action is generally warranted when excess lifetime cancer risk exceeds one-in-ten thousand. In other words, for every 10,000 people exposed under the assumptions used in the risk assessment, one additional cancer may occur as a result of exposure to the PCB-contaminated soils.

PCBs were identified as the contaminant of concern in previous investigations that started in 1994. The baseline risk assessment focused on health effects for both young children (up to 6 years old) and adults, in a residential setting, that could result from current and future direct contact with contaminated soil, such as incidental ingestion and dermal contact.

The soil samples collected from the residential, commercial, and municipal properties in the vicinity of the CDE facility were analyzed for PCBs. PCBs were analyzed using EPA's standard sampling methodology that identifies PCBs in the environment as Aroclors. "Aroclor" is the trade name given to commercially manufactured mixtures of PCBs. The different mixtures are identified with a four digit number (e.g., Aroclor-1254). Aroclors were chosen for evaluation because they were used in the former manufacturing processes at the CDE facility and are bioaccumulative and persistent in the environment. The Aroclors detected at the properties in the vicinity of the CDE facility are Aroclor-1254 and Aroclor-1260.

In the baseline risk assessment, surface soil, as well as subsurface soil, were examined to determine the cancer risk and non-cancer health hazards associated with exposure to PCBs on each of the properties sampled.

Results of the risk assessment indicate that the cancer risk estimates for adult and young child residents was above the risk range at one property (9.2×10^{-5} for adults and 2×10^{-4} for the young child).

For the evaluation of non-cancer human health hazards, three properties exceeded EPA's target hazard index of 1. The hazard indices were 56, 2.8, and 2.4 for the young child and 6.7, less than 1, and less than 1 for the adult at the individual properties, respectively. These cancer risks and non-cancer hazard levels indicate that there is a potential cancer risk and non-cancer health hazard to children and adults from direct exposure to contaminated surface and subsurface soil at these three properties. These risk estimates are based on current reasonable maximum exposure scenarios and were developed by taking into account various conservative assumptions about the frequency and duration of an individual's exposure to the surface and subsurface soils, as well as the toxicity of PCBs.

It is EPA's current judgment that the Preferred Alternative identified in this Proposed Plan, or one of the other active measures considered in the Proposed Plan, is necessary to protect human health or welfare or the environment from actual or threatened releases of hazardous substances into the environment.

WHAT ARE THE "CONTAMINANTS OF CONCERN"?

The contaminant of concern at the residential, commercial, and municipal properties in the vicinity of the Cornell-Dubilier Electronics facility is polychlorinated biphenyls (PCBs).

PCBs: PCBs is the contaminant that drives the soil risk. PCBs were detected on residential, commercial, and municipal properties in the vicinity of the CDE facility in soil (0 to 2 inches below ground surface) at (non detect, 44 ppm; minimum, and maximum, respectfully). In deeper subsurface soil samples (16 to 18 inches below ground surface), it was detected at (non detect, 310 ppm; minimum and maximum, respectfully).

PCBs were widely used as a fire preventative and insulator in the manufacture of transformers, capacitors, and other electrical equipment because of their ability to withstand exceptionally high temperatures. The manufacture of PCBs stopped in the United States in 1977.

EPA has determined that PCBs cause cancer in animals and probably cause cancer in humans. Serious non-cancer health effects have been observed in animals exposed to PCBs. Studies of Rhesus monkeys exposed to PCBs indicate a reduced ability to fight infection and reduced birth weight in offspring exposed in utero.

Ecological Risks

A four-step process is utilized for assessing site-related ecological risks for a reasonable maximum exposure scenario: *Problem Formulation*—a qualitative evaluation of contaminant release, migration, and fate; identification of contaminants of concern, receptors, exposure pathways, and known ecological effects of the contaminants; and selection of endpoints for further study. *Exposure Assessment*—a quantitative evaluation of contaminant release, migration, and fate; characterization of exposure pathways and receptors; and measurement or estimation of exposure point concentrations. *Ecological Effects Assessment*—literature reviews, field studies, and toxicity tests, linking contaminant concentrations to effects on ecological receptors. *Risk Characterization*—measurement or estimation of both current and future adverse effects.

An ecological risk assessment (ERA) was performed for the surface soils at properties in the vicinity of the CDE facility. The objective of the ERA was to assess potential risks to terrestrial receptors from contaminants found on these properties. Based on the ERA, PCB-contaminated soils at these properties represent low potential risks to wildlife species, due to the lack of significant habitat at most of the off-site properties. An ERA for the CDE facility is being conducted as part of the later operable units (OU2 and OU3) that include surface water and associated wetlands.

REMEDIAL ACTION OBJECTIVES

The following remedial action objectives for contaminated soil address the human health risks and environmental concerns at residential, commercial, and municipal properties in the vicinity of the CDE facility:

Reduce or eliminate the direct contact threat associated with contaminated soil to levels protective of current land use and considering the future residential use; and

prevent exposure and minimize disturbance to the surrounding community of South Plainfield, during implementation of the remedial action.

SUMMARY OF SOIL REMEDIAL ALTERNATIVES		
Medium	Source Control Alternatives	Description
SOIL	SC-1	No Action
	SC-2	Limited Action; Engineering and Institutional Controls
	SC-3	Excavation; Off-Site Disposal with Treatment (if necessary)

EPA's August 1990 guidance, entitled "A guide on Remedial Actions at Superfund Sites with PCB Contamination", recommends a cleanup goal of 1 ppm for unrestricted residential land use, and EPA is using 1 ppm as its preliminary remediation goal (PRG) in this Proposed Plan. The State of New Jersey has developed a State-wide residential soil cleanup criteria for PCBs of 0.49 ppm. Based on the data collected to date, in meeting EPA's cleanup levels for PCBs, EPA believes the remedy may also achieve the State of New Jersey residential direct contact soil cleanup criteria. Sampling collected as part of the RI and previous removal curbside right-of-way investigations indicate that 34 samples exceeded EPA's PRG, and 59 additional samples exceeded the NJDEP's criteria of 0.49 ppm. If the remedy does not achieve the State residential direct contact cleanup criteria of 0.49 ppm for PCBs, the State may elect to pursue additional soil removal, or require that restrictions be placed on properties to prevent future direct contact with soils above 0.49 ppm.

SUMMARY OF REMEDIAL ALTERNATIVES

Remedial Alternatives for OUI soils are presented below. CERCLA requires that if a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure, EPA must review the action no less often than every five years after initiation of the action. In addition, institutional controls (e.g., a deed notice in the form of an easement or covenant) to limit the use of portions of the property may be required. These use restrictions are discussed in each alternative as appropriate. The type of restriction and enforceability will need to be determined after completion of the remedial alternative selected in the ROD. Consistent with expectations set out in the Superfund regulations, none of the remedies rely exclusively on institutional controls to achieve protectiveness. The time frames below for construction do not include the time for remedial design or the time to procure contracts.

The remedial alternatives evaluated in this Proposed Plan were limited for several reasons. This is a well-established, primarily residential neighborhood, and space is limited; consequently, on-site remedies that involve treatment or containment (such as creating a disposal cell for the soil in the area) were not considered. In addition, since no principal threat wastes are associated with OUI and the contaminant concentrations are relatively low, treatment of the contaminated soil was not considered as a

principal element of any alternative.

The remedial alternatives would require an investigation of additional properties in the study area, during the remedial design, to determine if additional properties require remediation. The additional sampling would typically be performed on properties where right-of-way sampling revealed elevated levels of PCBs, however, there was insufficient data to determine whether or not remediation is required. The sampling would include exterior soils and the collection of dust samples from the interior of homes. Based on the investigations performed to date, EPA has targeted at least 59 properties where additional soil sampling is called for. EPA's estimate of approximately 12 affected properties is based upon EPA's experience with testing performed at properties nearby the CDE facility and an analysis of the existing data to predict how many additional affected properties will be found by further investigations. The active remedial alternatives would also call for a re-evaluation of the 13 residential properties where removal actions have already been performed, to assure that those cleanups are consistent with the selected remedy.

Alternative 1: No Action

<i>Estimated Capital Cost:</i>	<i>\$0</i>
<i>Estimated Annual O&M Cost:</i>	<i>\$0</i>
<i>Estimated Present Worth Cost:</i>	<i>\$0</i>
<i>Estimated Construction Time frame:</i>	<i>None</i>

Regulations governing the Superfund program generally require that the "no action" alternative be evaluated to establish a baseline for comparison. Under this alternative, EPA would take no action at these properties to prevent exposure to the soil contamination and the contaminated soil would be left in place. Because contaminated soil would be left in place under this alternative, a review of the remedy every five years would be required.

Alternative 2: Limited Action; Engineering and Institutional Controls

<i>Estimated Capital Cost:</i>	<i>\$520,000</i>
<i>Estimated Annual O&M Cost:</i>	<i>\$20,000</i>
<i>Estimated Present Worth Cost:</i>	<i>\$770,000</i>
<i>Estimated Construction Time frame:</i>	<i>3 to 6 months</i>

The Limited Action alternative would provide minimal engineering and institutional controls to prevent exposure to PCB-contaminated soils. Capping would be performed

to minimize exposure to PCB-contaminated soil. The areas to be capped for each property would limit exposure to PCBs at concentrations greater than 1 ppm. Controls would also include implementation of deed notices or restrictions to limit future use of the properties, implementation of public awareness programs, and five-year reviews to assess the need for future remedial actions.

Sealing or other engineering controls to prevent direct contact or inhalation of PCB-contaminated indoor dust is not feasible in a residential setting. Therefore, this alternative would include indoor dust remediation where PCB-contaminated dust is encountered. Remediation of the interior of homes includes the cleaning of homes where health concerns or potential health concerns exist and the temporary relocation of residents during the cleaning. The cleaning procedures to be employed include: wiping down all horizontal exposed surfaces; vacuuming floors, drapes, upholstery, molding and window casings using HEPA vacuums; washing all tile, linoleum and wood floors; steam cleaning or replacing carpets and area rugs; cleaning heating and cooling ducts; and cleaning or replacing all filters on air handling equipment.

Post-cleaning indoor dust samples would be collected to determine the effectiveness of the cleaning.

Because PCB-contaminated soil would be left in place as part of Alternative 2, review of the remedy every five years would be required.

Alternative 3: Excavation; Off-Site Disposal with Treatment

Estimated Capital Cost: \$760,000
Estimated Annual O & M Cost: \$0
Estimated Present Worth Cost: \$760,000
Estimated Construction Time frame: 12 months

This alternative includes the excavation of an estimated 2,100 cubic yards of PCB-contaminated soil and off-site disposal at a Resource Conservation and Recovery Act (RCRA) or Toxic Substances Control Act (TSCA) regulated landfill, as appropriate, based on the concentrations of PCBs in the excavated soils. If necessary, in order to meet the requirements of the disposal facilities, treatment of the soil may be performed using any of the technologies identified in the Feasibility Study. Under this alternative, PCB-contaminated soil found at properties in excess of the PRG would be excavated for off-site disposal. Once excavation activities

have been completed, clean soil will be used as backfill. Based upon EPA's experience with testing performed at properties nearby the CDE facility, EPA has conservatively estimated that the additional sampling is expected to identify up to 12 affected properties. An estimated 2,100 cubic yards of contaminated soil would be excavated from the properties requiring soil cleanup. To date, four properties have been identified that would require remediation under this alternative: three properties that were identified in the RI investigation, and one property that was identified during the earlier removal action investigation. This one property did not require an immediate response under EPA's removal action authority, but would be addressed under this final remedy. The locations of the four properties that would require remediation are identified on Figure 2. The properties include a single-family home, an automotive repair station, a construction company office, and a former day care center. This alternative would include an investigation of the study area, during the remedial design, to determine if additional properties require remediation. The sampling would include exterior soils and the collection of dust samples from the interior of homes. The sampling would be performed in accordance with NJDEP requirements, including the sampling protocols identified in N.J.A.C. 7:26:E.

This alternative would also include indoor dust remediation where PCB-contaminated dust is encountered.

Remediation of the interior of homes includes the cleaning of homes where health concerns or potential health concerns exist and the temporary relocation of residents during the cleaning. The cleaning procedures to be employed include: wiping down all horizontal exposed surfaces; vacuuming floors, drapes, upholstery, molding and window casings using HEPA vacuums; washing all tile, linoleum and wood floors; steam cleaning or replacing carpets and area rugs; cleaning heating and cooling ducts; and cleaning or replacing all filters on air handling equipment.

Post-cleaning indoor dust samples would be collected to determine the effectiveness of the cleaning.

EVALUATION OF ALTERNATIVES

Nine criteria are used to evaluate the different remediation alternatives individually and against each other in order to select an alternative. This section of the Proposed Plan profiles the relative performance of each alternative against the nine criteria, noting how it compares to the other

options under consideration. The nine evaluation criteria are discussed below. The "Detailed Analysis of Alternatives" can be found in the FS.

1. Overall Protection of Human Health and the Environment

All of the alternatives except Alternative 1 (No Action) would provide adequate protection of human health and the environment by eliminating, reducing, or controlling risk through off-site disposal/treatment, engineering controls, and/or institutional controls. Alternative 2 would provide some protection to property owners/occupants from future exposure to contaminated soils through the placement of cover material, and through institutional controls such as land-use restrictions and public education. However, contaminated soils would remain in place above the cleanup goals.

Alternative 3 (excavation and off-site disposal) would remove soil with PCB concentrations above the PRG and, therefore, would protect both human and environmental receptors from contact with contaminants in the soil.

There would be no local human health or environmental impacts associated with off-site disposal because the contaminants would be removed from the site to a secure location. Alternative 3 would eliminate the actual or potential exposure of residents to contaminated soils.

2. Compliance with ARARs

Actions taken at any Superfund site must meet all applicable or relevant and appropriate requirements (ARARS) of federal and state law or provide grounds for invoking a waiver of these requirements. These include chemical-specific, location-specific, and action-specific ARARs. There are no chemical-specific ARARs for the contaminated soils. EPA's August 1990 guidance, entitled "A guide on Remedial Actions at Superfund Sites with PCB contamination" recommends a cleanup goal of 1 ppm for unrestricted residential land use and EPA is using 1 ppm in this Proposed Plan. The State of New Jersey has developed a State-wide residential soil cleanup criteria for PCBs of 0.49 ppm, which is a "To Be Considered" criterion. Alternative 1, No Action, would not achieve either the PRG or the State's slightly lower cleanup criterion. Alternatives 2 and 3 would prevent direct contact with PCB-contaminated soil in excess of the PRG. On properties where the State criterion is not achieved, NJDEP may elect to take additional actions to

meet its more stringent standard.

The Resource Conservation and Recovery Act and the Toxic Substances Control Act are federal laws that mandate procedures for managing, treating, transporting, storing, and disposing of hazardous substances. All portions of RCRA that are applicable or relevant and appropriate to the proposed remedy for the site would be met by Alternatives 1 through 3 and all portions of TSCA would be met by Alternatives 2 and 3.

3. Long-term Effectiveness and Permanence

Alternative 1 (No Action) provides no reduction in risk. Alternative 2 would not be permanent or as effective over the long term, since deed restrictions may not reliably reduce future health risks to property owners/occupants associated with exposure to contaminated surface soils. In contrast, under Alternative 3, long-term risks would be removed, since contaminated soils would be permanently removed. Off-site treatment/disposal at a secure, permitted hazardous waste facility for the contaminated soil is reliable because the design of these types of facilities includes safeguards and would ensure the reliability of the technology and the security of the waste material.

4. Reduction of Toxicity, Mobility, or Volume of Contaminants Through Treatment

Alternative 1 (No Action) would not achieve any reduction in the toxicity, mobility, or volume of contaminated soil, since the soil would remain in place. Alternative 2 (Limited Action) would reduce the mobility of contaminants through capping, but would not reduce the volume or toxicity. Alternative 3 (Excavation) would reduce contaminant mobility through removal and disposal of the soils at an approved off-site disposal facility. Furthermore, off-site treatment, when required, would reduce the toxicity and volume of the contaminated soils prior to land disposal. Soils with PCB concentrations less than 50 ppm would be excavated and transported to a RCRA landfill permitted to accept low levels of PCB waste. Soils with PCB concentrations between 50 and 500 ppm would be excavated and transported to a TSCA landfill without treatment. It is anticipated that hazardous material would not be destroyed under Alternative 3, unless the disposal facility required treatment prior to landfilling.

5. Short-term Effectiveness

No short-term adverse impacts to the community would be

expected for Alternative 1 (No Action). Minimal impacts would be expected for Alternative 2 since contaminated soils would not be significantly disturbed during cap construction. Alternative 3, however, presents a higher short-term risk because of the greater potential for exposure associated with excavation and transportation of contaminated soils.

Alternative 3 would also cause an increase in truck traffic, noise and potentially dust in the surrounding community, as well as potential impacts to workers during the performance of the work. These potential impacts would be created through construction activities and exposure to the contaminated soil being excavated and handled. However, proven procedures including engineering controls, personnel protective equipment and safe work practices would be used to address potential impacts to workers and the community. For example, the work would be scheduled to coincide with normal working hours (e.g., 8 a.m. to 5 p.m. on week days and no work on weekends or holidays). In addition, trucking routes with the least disruption to the surrounding community would be utilized. Appropriate transportation safety measures would be required during the shipping of the contaminated soil to the off-site disposal facility.

No environmental impacts would be expected from Alternative 1. The risk of release during implementation of Alternatives 2 and 3 is principally limited to wind-blown soil transport or surface water runoff. Any potential environmental impacts associated with dust and runoff would be minimized with proper installation and implementation of dust and erosion control measures and by performing the excavation and off-site disposal with appropriate health and safety measures to limit the amount of material that may migrate to a potential receptor.

No time is required for implementation of Alternative 1 (No Action). Time required for implementation of Alternative 2 (Limited Action) is estimated to take three to six months. Alternative 3 (Excavation) is estimated to take about 12 months to implement.

These time frames do not take into account the performance of additional property investigations, to identify other contaminated properties, that would be required under Alternatives 2 and 3. These investigations would be performed during remedial design, and may add up to one year to the typical remedial design time frame of 15 to 18 months. However, the additional investigative work will be performed concurrently with the known

contaminated properties so that the work is streamlined.

6. Implementability

No technical implementability concerns exist for any of the three alternatives. However, the development of protective engineering and institutional controls, pursuant to Alternative 2, that would be both enforceable and acceptable to the private property owners is in question. All technical components of Alternatives 2 and 3 would be easily implemented using conventional construction equipment and materials. The personnel required to operate the heavy equipment would require appropriate Occupational Safety and Health Administration (OSHA) certifications (e.g., hazardous waste worker), in addition to being certified in the operation of heavy equipment. Such individuals are readily available. Use of off-site hazardous and non-hazardous treatment/disposal facilities for the disposal of the contaminated soils are available and would be feasible.

7. Cost

The estimated present worth cost of Alternative 1 (No Action) is \$0. Alternative 2 (Limited Action) has an estimated present worth cost of \$770,000 and Alternative 3 has a present worth cost of \$760,000.

8. State/Support Agency Acceptance

The State of New Jersey does not concur with EPA's PRG of 1 ppm for PCBs in soil. However, the State of New Jersey agrees with the preferred alternative in this Proposed Plan.

9. Community Acceptance

Community acceptance of the preferred alternative will be evaluated after the public comment period ends and will be described in the Record of Decision, the document that formalizes the selection of the remedy, for the site.

SUMMARY OF THE PREFERRED ALTERNATIVE

The preferred alternative for cleaning up soils at residential, commercial, municipal properties in the vicinity of the CDE facility is Alternative 3 (Excavation; Off-Site Disposal), hereafter referred to as the Preferred Alternative. The Preferred Alternative includes excavation, transportation and disposal, with treatment as necessary, of an estimated 2,100 cubic yards of contaminated soil and interior cleaning.

EVALUATION CRITERIA FOR SUPERFUND REMEDIAL ALTERNATIVES

Overall Protectiveness of Human Health and the Environment determines whether an alternative eliminates, reduces, or controls threats to public health and the environment through institutional controls, engineering controls, or treatment.

Compliance with ARARs evaluates whether the alternative meets Federal and State environmental statutes, regulations, and other requirements that pertain to the site, or whether a waiver is justified.

Long-term Effectiveness and Permanence considers the ability of an alternative to maintain protection of human health and the environment over time.

Reduction of Toxicity, Mobility, or Volume of Contaminants through Treatment evaluates an alternative's use of treatment to reduce the harmful effects of principal contaminants, their ability to move in the environment, and the amount of contamination present.

Short-term Effectiveness considers the length of time needed to implement an alternative and the risks the alternative poses to workers, residents, and the environment during implementation.

Implementability considers the technical and administrative feasibility of implementing the alternative, including factors such as the relative availability of goods and services.

Cost includes estimated capital and annual operations and maintenance costs, as well as present worth cost. Present worth cost is the total cost of an alternative over time in terms of today's dollar value. Cost estimates are expected to be accurate within a range of +50 to -30 percent.

State/Support Agency Acceptance considers whether the State agrees with the EPA's analyses and recommendations, as described in the RI/FS and Proposed Plan.

Community Acceptance considers whether the local community agrees with EPA's analyses and preferred alternative. Comments received on the Proposed Plan are an important indicator of community acceptance.

The Preferred Alternative was selected over other alternatives because it is expected to achieve substantial and long-term risk reduction through off-site disposal, and is expected to allow the property to be used for the reasonably anticipated future land use, which is residential and commercial. The Preferred Alternative reduces the risk within a reasonable time frame, at comparable cost, and provides for long-term reliability of the remedy. Based on the information available at this time, EPA and the State of New Jersey believe the Preferred Alternative would be protective of human health and the environment, would comply with ARARs, would be cost-effective, and would utilize permanent solutions and alternative treatment technologies to the maximum extent practicable. Because it would treat a portion of source material constituting principal threats, the Preferred Alternative will meet the statutory preference for the selection of a remedy that involves treatment as a principal element. The selected alternative can change in response to public comment or new information.

COMMUNITY PARTICIPATION

EPA and NJDEP provide information regarding the cleanup of the CDE site to the public through public meetings, the Administrative Record file for the site, and announcements published in the Courier News newspaper. EPA and the State encourage the public to gain a more comprehensive understanding of the site and the Superfund activities that have been conducted there. The dates for

For further information on the CDE site, please contact:

Peter Mannino
Remedial Project
Manager
(212) 637-4395

Pat Seppi
Community Relations
Coordinator
(212) 637-3679

U.S. EPA
290 Broadway 19th Floor.
New York, New York 10007-1866

The ombudsman for EPA's Region 2 office is:

George H. Zachos
Ombudsman
Toll-free (888) 283-7626
(732) 321-6621

U.S. EPA Region 2
2890 Woodbridge Avenues, MS-211
Edison, New Jersey 08837

the public comment period, the date, location and time of the public meeting, and the locations of the Administrative Record files, are provided on the front page of this Proposed Plan. EPA Region 2 has designated an Ombudsman as a point-of-contact for community concerns and questions about the federal Superfund program in New York, New Jersey, Puerto Rico and the U.S. Virgin Islands. To support this effort, the Agency has established a 24-hour, toll-free number that the public can call to request information, express their concerns or register complaints about Superfund.

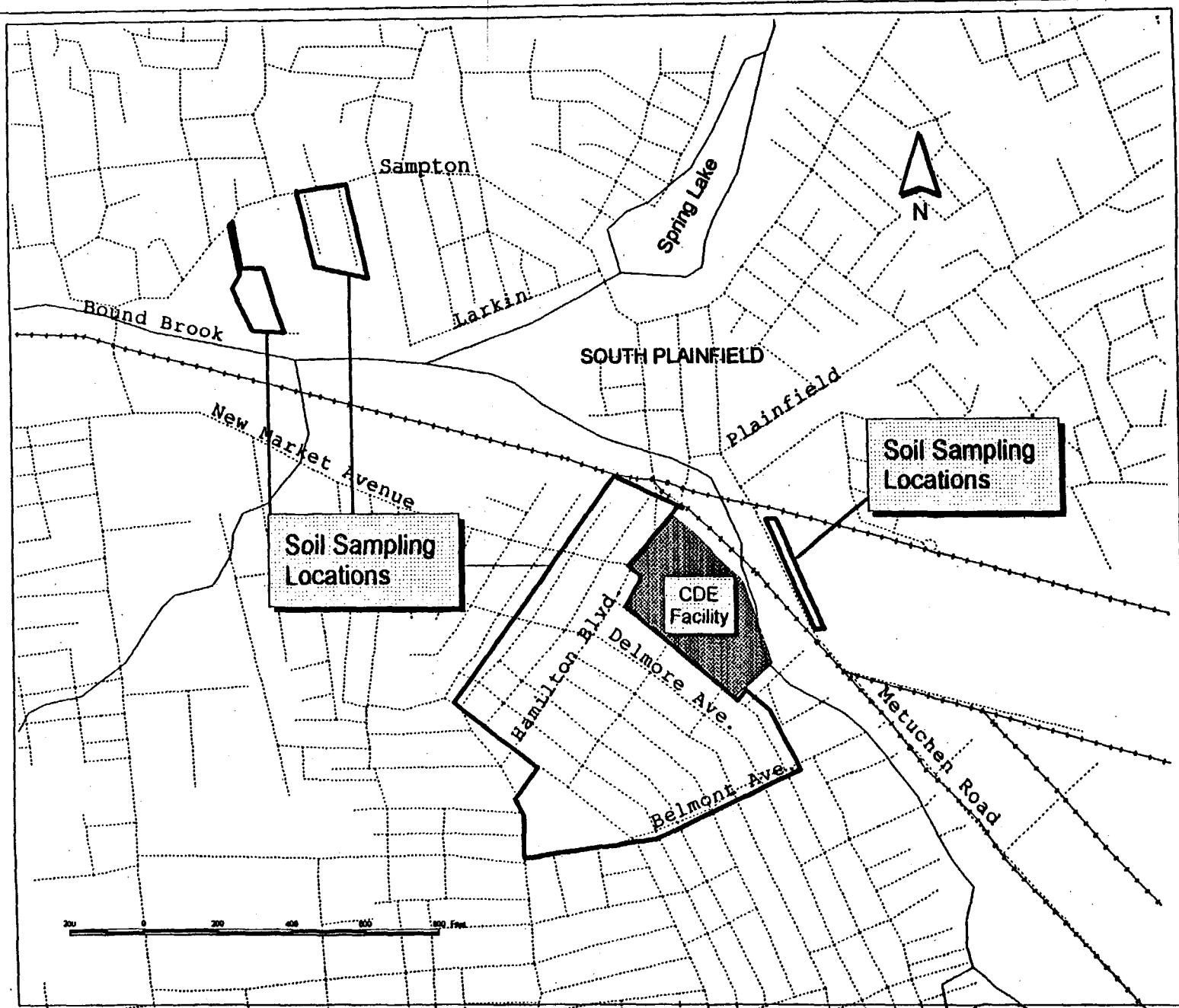


Figure 1
Cornell-Dubilier Electronics Site
Residential, Commercial, and Municipal Sampling Locations

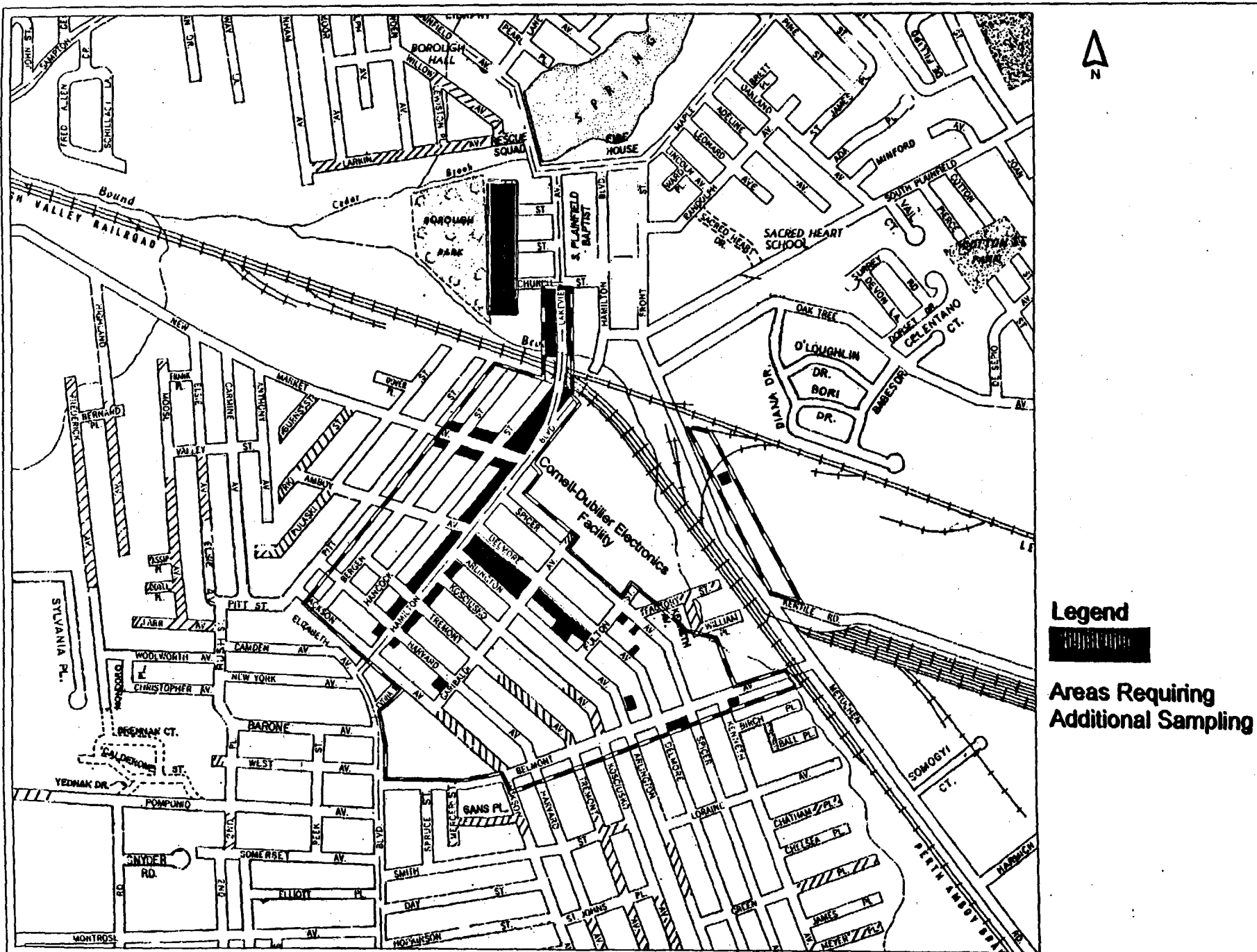


Figure 3
Cornell-Dubilier Electronics Site
Area Requiring Additional Sampling

ATTACHMENT B

PUBLIC NOTICE

847590111



U.S. ENVIRONMENTAL PROTECTION AGENCY REGION II INVITES PUBLIC COMMENT

Proposed Cleanup for the Cornell-Dubilier Electronics Superfund Site South Plainfield, Middlesex County, New Jersey

The United States Environmental Protection Agency (EPA) announces the opening of a 30-day public comment period on the Proposed Plan and Remedial Investigation/Feasibility Study (RI/FS), which addresses the cleanup of contaminated soil at properties in the vicinity of the Cornell-Dubilier Electronics (CDE) facility in South Plainfield, Middlesex County, New Jersey. As part of the public comment period, EPA will hold a public meeting on June 23, 2003, at 7:00 p.m., in the South Plainfield Borough Hall located at 2480 Plainfield Avenue, South Plainfield, New Jersey. The meeting, which will address the proposed cleanup plan, will allow community members to comment on the proposed plan to EPA officials. A final copy of the RI/FS for residential, commercial, and municipal properties in the vicinity of the CDE facility and Proposed Plan may be reviewed at the South Plainfield Public Library, 2484 Plainfield Avenue, South Plainfield, New Jersey, and at the EPA Region II Records Center located at 290 Broadway, 18th Floor in New York City.

As the lead agency, EPA divided the site into three Operable Units (OUs). The first OU addresses residential, commercial, and municipal properties in the vicinity of the CDE facility. The second operable unit (OU2) will address the remediation of soils and buildings at the former CDE facility on Hamilton Boulevard. The third and final operable unit (OU3) will address the contaminated groundwater and contaminated sediments at the Bound Brook.

Based upon the results of the first Operable Unit RI/FS, EPA prepared a Proposed Plan that describes all the cleanup alternatives and provides EPA's rationale for recommending a single alternative. EPA evaluated the following three alternatives:

- Alternative 1: No Action
- Alternative 2: Limited Action; Engineering and Institutional Controls
- Alternative 3: Excavation; Off-Site Disposal with Treatment

EPA recommends Alternative 3: Excavation; Off-Site Disposal with Treatment for the Preferred Alternative in the Proposed Plan.

Before selecting a final remedy, EPA and the New Jersey Department of Environmental Protection will consider all written and oral comments on this preferred remedy. All comments must be received on or before July 16, 2003. The final decision document, or Record of Decision, will include a summary of public comments and EPA's responses.

Comments will be accepted in person at the public meeting and/or in written form through July 16, 2003. Please address all written comments to:

**Peter Mannino
Remedial Project Manager
U.S. Environmental Protection Agency
290 Broadway, 19th Floor
New York, New York 10007-1866**

ATTACHMENT C

PUBLIC MEETING TRANSCRIPTS

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ORIGINAL

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PUBLIC MEETING

RE: SUPERFUND PROGRAM PROPOSED PLAN

CORNELL-DUBILIER ELECTRONICS SITE

BY: U.S. ENVIRONMENTAL PROTECTION AGENCY

June 23, 2003

PARTICIPANTS:

John Prince - NJ Remediation Section
Pete Mannino - Project Manager
Pat Seppi - Community Involvement
Marion Olson - Rick Assessor
Julie McPerson - Risk Assessor

TRANSCRIPT of the above named
presentation taken by and before IRNA H.
ROSENBERG, a Certified Shorthand Reporter and
Notary Public of the State of New Jersey, License
No. XI02220, at the South Plainfield Borough
Hall, 2480 Plainfield Avenue, South Plainfield,
New Jersey 07080, on Monday, June 23, 2003,
commencing at 7:00 in the evening.

TAYLOR & FRIEDBERG
Certified Shorthand Reporters
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E-mail: csr@taylorfriedberg.com

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1 EPA - 6/23/03 - South Plainfield, NJ

2 MS. SEPPI: I'd like to thank
3 you for coming out tonight for a public meeting.
4 I was afraid we wouldn't have anybody turn out
5 since this is the first nice day we've had in a
6 long time, but again, thank you for coming out.

7 My name is Pat Seppi, and I'm
8 the Community Involvement Coordinator for the
9 Cornell-Dubilier Superfund Site. There are also
10 other people from the EPA here tonight I'd like
11 to introduce you to.

12 John Prince, who is in the New
13 Jersey Remediation Section; Pete Mannino is EPA's
14 Project Manager; and Marion Olson and Julie
15 McPherson are Risk Assessors with EPA.

16 I see quite a few familiar faces
17 here tonight and I know the meetings in the past
18 have been a little bit more informal, but
19 tonight's public meeting will be run a little bit
20 differently, and the reason we're here is to
21 discuss EPA's proposed plan to excavate soil on
22 three properties in the neighborhood of
23 Cornell-Dubilier, and also to talk about some
24 excavation of the soil for about another 50
25 properties.

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1 EPA - 6/23/03 - South Plainfield, NJ

2 Now, I hope a lot of you have
3 received this Proposed Plan in the mail. If you
4 were on our mailing list, you probably did. Some
5 of you who already had copies might have had a
6 chance to look at them, and if you haven't
7 received them, there are some copies in the back
8 that you're welcome to take. There's also a
9 sign-in sheet in the back, and I've asked you to
10 please sign that when you have a chance, just to
11 make sure that you are on our mailing list and
12 you'll be able to receive anything we send out in
13 the future. Also, you'll notice we have a
14 stenographer here this evening, and she'll be
15 recording all the minutes of the meeting.

16 As you'll notice in the Proposed
17 Plan, in the box it says "Public Comment Period."
18 It started on June 16th and it's going to run
19 until July 16th, and that gives you an
20 opportunity to give us your input on our Proposed
21 Plan. Anything tonight will be recorded, and if
22 you think of something after the meeting or any
23 of your friends and neighbors want to comment on
24 it, you can certainly send any written comments
25 to Pete up till the close of business on July

1 EPA - 6/23/03 - South Plainfield, NJ
2 16th, and his address is in the Proposed Plan.

3 Now, after the presentation, and
4 that's why this is a little bit more formal
5 tonight, rather than just opening it up for
6 questions and answers, we do have two short
7 presentations, and then we will open the floor up
8 for questions and answers.

9 What we'd like to do is ask you
10 to please come up front and say your name so our
11 stenographer will have a chance to get it for the
12 record before you ask your question, and at the
13 beginning of the question-and-answer period, we'd
14 like to just answer questions about the Operable
15 Unit 1 relating to the Proposed Plan that we
16 have; and after all those questions and answers,
17 then we'll be glad to go back and answer any
18 questions you may have about the other aspects of
19 the cleanup, so let me turn this over to John
20 Prince, and he'll give you an overview of what
21 we've done so far at Cornell, a lot of the work
22 that has to be done, and where we expect to go in
23 the future.

24 MR. PRINCE: Thank you, Pat. We
25 were here two weeks ago and I see some familiar

1 EPA - 6/23/03 - South Plainfield, NJ
2 faces from two weeks ago in an informational
3 session, a more informal setting, and the purpose
4 of that meeting was to actually discuss a
5 different a part of the site, the facility
6 itself, and there was an article in the newspaper
7 over the weekend and that article also focused,
8 primarily, on the Hamilton Industrial Park, and
9 my role in my part of our presentation is to try
10 and set the stage as to what that has to do with
11 what we're talking about tonight and a little bit
12 of what happened in the past, and it almost seems
13 as if we're trying to be more confusing than we
14 meant to be, so I hope to sort some of that out
15 for you.

16 The people that Pat introduced
17 are all part of the Environmental Protection
18 Agency, so the Federal Government's Environmental
19 Agency, and we have a sister agency, the New
20 Jersey Department of Environmental Protection,
21 and we've worked with them on sites like this,
22 and by "sites like this," I mean sites that are
23 placed on the national priorities list of
24 Superfund sites, the major ones of highest
25 concern around the nation for the EPA as far as

1 EPA - 6/23/03 - South Plainfield, NJ
2 the Superfund Law which the EPA needed to set
3 priorities. Couldn't work on everything, needed
4 to work on those that were most in need of EPA's
5 attention through this program, and if you were
6 here two weeks ago, I'm going to repeat a little
7 bit of what I said then.

8 The program runs in sort of two
9 different stages. The emergency-response stage,
10 or what we call the removal-action stage, comes
11 first. It's when the site is first discovered.
12 It's early on in the process, and removal-action
13 involves sometimes actual cleanup, sometimes
14 things like fencing, sometimes things like
15 picking up steel drums, or emergencies that are
16 related to a facility being discovered or drums
17 being found or an operating facility suddenly
18 becoming abandoned and company going out of
19 business or something like that where there is a
20 sudden problem. And there were a number of what
21 we call removal actions that took place at the
22 Cornell-Dubilier site and its surroundings in the
23 late 1990s.

24 At the facility, we did a number
25 of things including having the owner quit certain

1 EPA - 6/23/03 - South Plainfield, NJ

2 operations that were going on at the facility,
3 particularly a driving school that was operating
4 in the rear of the facility on an unpaved, dusty
5 and, it turns out, contaminated part of the site,
6 and a lot of fencing of that facility and some
7 regrading and some putting down of seeding so
8 there's a grassy area in the worst part of that
9 Hamilton Industrial Park in terms of
10 contamination, which is the rear of the facility,
11 and then paving of the parts that are being used.

12 There were also removal actions
13 that took place in some of the neighboring
14 streets. Pete Mannino will go into a little bit
15 of the detail of some of the streets, but to put
16 it simply, we collected some samples on some of
17 the residences nearest the facility and found
18 some levels of PCBs in soils outside of these
19 properties, and then through one or another life
20 practice like walking in and out of your door,
21 some of the PCBs got into dust that was inside
22 some of these properties and we ended up doing
23 some cleanup work on a total of 13 lots.

24 And at that time, we collected
25 samples, identified some properties, expanded

EPA - 6/23/03 - South Plainfield, NJ

that investigation to another tier of blocks, collected more samples and didn't really find too much, and went another tier out, collected some more samples, didn't find too much, and at that time, it was felt that we had a pretty good handle that we had found most of the properties.

But it was not clear that we had found all of them, and that, really, is what brings us here today and brings us to the other side of what the Superfund's program does, which is what we call the remedial program, and that is, well, we solved the emergencies, put up some fences, prevented access to contaminated material, but what are we going to do for maybe some low levels, say, PCBs that still might be out there. We have to find out where they are. We need to find out whether they're a problem that really needs to be addressed, and then evaluate some permanent solutions for getting to the end of this.

This meeting tonight is one stage in that process for those residential properties and commercial properties that surround the Hamilton Industrial Park, and we

1 EPA - 6/23/03 - South Plainfield, NJ
2 call that Operable Unit 1 or Phase 1, and our
3 EPA's intent was to be coming to you with our
4 proposed remedy for those properties a couple of
5 months ago, and that would have prevented some of
6 the confusion that maybe is present now, and
7 through circumstances beyond our control, we
8 couldn't start this process until now and it so
9 happens that we're also in the process of moving
10 ahead on the next phase, which is the facility,
11 the Hamilton Industrial Park.

12 So that's why we had a meeting
13 two weeks ago, an informational session to get
14 some feedback and to provide the community with
15 information about that facility, and here we are
16 two weeks later talking about, really, something
17 different.

18 We're going to get some
19 questions tonight, I would suspect, on both of
20 those phases and, probably the third phase, which
21 is the contamination that's in the Bound Brook,
22 and there has been a fair amount of study by EPA
23 of sediment contamination in the Bound Brook.
24 There are some low levels of PCBs in there. At
25 least some of it comes from the Cornell-Dubilier

1 EPA - 6/23/03 - South Plainfield, NJ
2 site, and some of it clearly comes from other
3 places, too, and EPA, because it's starting to
4 become a very complex site, we've broken it into
5 these phases or operable units. First is the
6 residences, second is the facility and the third
7 will then be the Bound Brook.

8 Now, let me talk a little bit
9 about the process because unfortunately, this is
10 relatively complex and unfortunately, this is
11 just one stage in it.

12 The idea of the remedial program
13 is you do a study, you evaluate the risks posed
14 by the contamination you find, EPA does
15 something called feasibility studies, EPA
16 proposes a remedy, brings it to the community,
17 that's where we're at right now, and then seeks
18 public comment; and only after we receive that
19 public comment and speak to our sister agency at
20 the State of New Jersey, then we can finally pick
21 that remedy that's the appropriate one for the
22 site.

23 In this case, for these
24 residences, as I think you'll see, it's pretty
25 straightforward and it's pretty simple, but we

1 EPA - 6/23/03 - South Plainfield, NJ
2 have to go through that process anyway, and at
3 the end of the day, EPA will write something
4 called a record of decision. It's a final
5 document that says this is what will happen on
6 these properties, and in essence, it becomes
7 EPA's marching orders, this is what's going to
8 happen, and Congress set up the Superfund program
9 for us to go through that process so we can get
10 public input, know that we've looked at a wide
11 range of options, and then picked what is
12 expected to be the best solution to this site.

13 This is somewhat a dry run for
14 the next phase, which will be for Operable Unit
15 2, the Hamilton Industrial Park, which will be
16 much more complex because of the number of
17 options, the number of problems. The number of
18 problems at that facility is much greater as well
19 as the contamination is much greater, and the
20 number of possible solutions are much broader and
21 we will need to go through this process again.

22 So at this point, Pete is going
23 to go into some details of what we found at the
24 residential lots surrounding the facility, and
25 then what our preferred remedy is.

1 EPA - 6/23/03 - South Plainfield, NJ

2 MR. MANNINO: Thank you, John.

3 I'll try to be brief. My presentation has a
4 couple of different parts to it. John covered
5 the first part where he described the different
6 operable units at the Cornell-Dubilier site. The
7 next part of my presentation is, basically, going
8 over and describing EPA's investigation of the
9 residential and commercial properties that are in
10 the vicinity on the former Cornell-Dubilier

11 facility. After that, we'll start talking about
12 the alternatives that EPA evaluated to address
13 those properties. Then finally, as John said,
14 we'll discuss EPA's preferred alternative on how
15 to address those properties.

16 So if we can get started,
17 actually, that first slide basically covers what
18 John was talking about, how the site is being
19 addressed in phases or operable units. The first
20 one, Operable Unit 1, which is the purpose of
21 tonight's meeting, deals with the residential and
22 commercial properties that are in the vicinity of
23 the former Cornell facility. Operable Unit 2,
24 which is what we had a few information sessions
25 on in the past several months, deals with the

1 EPA - 6/23/03 - South Plainfield, NJ
2 on-site soils in the buildings at Hamilton
3 Industrial Park; and then Operable Unit 3 deals
4 with the contaminated ground water at the site of
5 the Bound Brook, but getting back to Operable
6 Unit 1, let me give you a little history on the
7 sampling and the approach that EPA began to
8 address these properties.

9 In 1997, we began what we call
10 the tier approach to do soil sampling and
11 interior dust sampling in homes that were in the
12 vicinity of the Industrial Park. The following
13 figure shows how that tier approach was done.

14 The sampling began in mid 1997
15 on Metuchen Avenue, and then we started doing
16 sampling on Spicer, Delmore and on Hamilton
17 Boulevard, and also on Belmont. Basically, as
18 John said, during that sampling, we found where
19 there were some homes on Spicer and Delmore
20 Avenue that had elevated levels of PCBs that
21 required remediation. Soils had to be excavated
22 and interior dust had levels of PCBs that were
23 unacceptable, and as a result, we cleaned them
24 up. Between 1998 and 2000, we cleaned 13 homes
25 in that study area, and soil was removed,

1 EPA - 6/23/03 - South Plainfield, NJ
2 properties were restored and the interiors were
3 cleaned during that period of time.

4 At that point, we felt that
5 there may be some additional areas that would
6 require some additional sampling just to make
7 sure we covered a large enough area to make sure
8 we had a good handle on the scope of the project.
9 So in 2000, we began another sampling event that
10 covered approximately 13 right-of-ways, 19 homes
11 that we targeted for extensive sampling, and we
12 also did right-of-ways and sampling on homes that
13 were in the flood plain of the Bound Brook, which
14 are these two areas on the top left. Those
15 streets are Fred Allen, Schillaci, Oakmoor and
16 Lowden. I think I covered all the streets that
17 we did in the sampling in the floodplain.

18 Then you can see near the
19 Industrial Park, we sampled all the way up to the
20 Roosevelt School and went out to Belmont and then
21 Bergen Street on the northern end of the area.
22 The purpose of doing this was to get a broad
23 general area, making sure we captured the extent
24 of the distribution of the PCBs, and what we
25 found in that sampling was that although we had

1 EPA - 6/23/03 - South Plainfield, NJ
2 addressed the 13 homes previously, there were
3 three additional homes that we found where there
4 were some elevated levels of PCBs that would
5 require some cleanup.

6 What we also found was that
7 there was additional homes where we did that
8 curbside right-of-way sampling that there was
9 some exceedances of EPA's cleanup goal of 1 ppm
10 PCBs in the soils. As a result, we developed a
11 pattern that supported whether it was windblown
12 or vehicle-carried contamination from the
13 facility, and what we found, also, was that the
14 more frequent detections of PCBs in the soils
15 were on the blocks closest to the Industrial Park
16 and high-traffic areas like New Market Avenue and
17 Hamilton Boulevard, which are the main
18 thoroughfares out of the Industrial Park.

19 As I said, the sampling revealed
20 three additional homes with PCBs in the soil that
21 posed a potential health threat to the residents
22 or the occupants. In addition, there was some
23 other properties where more extensive sampling
24 was called for, about 59 or 60 properties that we
25 targeted where additional sampling needs to be

1 EPA - 6/23/03 - South Plainfield, NJ

2 done.

3 The following slide shows the
4 location of the curbside right-of-way sampling
5 that exceeds EPA's cleanup goal of 1 ppm or State
6 of New Jersey Department of Environmental
7 Protection, our sister agency, has a cleanup
8 criteria of 0.49 ppm, so the shaded area shows
9 exceedances of our sampling of both EPA's and the
10 State of New Jersey's cleanup criteria.

11 Based on our experience with the
12 work that we did beginning in 1997 and the
13 sampling in '98 through 2000, we estimated,
14 conservatively, that there's about another 12
15 homes that when we do the additional sampling,
16 some of these properties, will require additional
17 cleanup, and there may be up to another seven
18 properties that will require their interiors to
19 be cleaned because of PCBs in the dust.

20 Based on this, we looked at
21 three different alternatives on how to address
22 these homes. The first one that we looked at is
23 No Action. This alternative is required to be
24 evaluated by law, and the regulations require
25 that the No Action alternative is evaluated at

1 EPA - 6/23/03 - South Plainfield, NJ
2 every site to establish a baseline for
3 comparison.

4 The second alternative that we
5 looked at is Limited Action. It's engineering
6 and institutional controls. Basically, it
7 consists of capping the areas where there's
8 exceedances of PCBs in soils to minimize the
9 exposure. Those areas to be capped would be
10 those areas that exceed the 1 ppm of PCBs in
11 soils concentration.

12 In addition, controls would have
13 to be implemented such as deed restrictions to
14 limit the future use of these properties. Under
15 this alternative, we would also include interior
16 dust remediation where additional sampling found
17 PCB-contaminated dust in the home, so this
18 alternative has a projected cost of approximately
19 \$770,000 to deal with the homes that we know
20 require the cleanup, the approximately additional
21 12 homes that the additional sampling would
22 reveal additional cleanup requirements, and would
23 have a period of three to six months to
24 implement.

25 The third alternative is the

1 EPA - 6/23/03 - South Plainfield, NJ

2 Excavation and Off-Site Disposal alternative.

3 Basically, under this alternative, PCB-

4 contaminated soil at properties in excess of 1

5 part per million would be excavated and shipped

6 off site for disposal in a regulated enclosure.

7 Once excavation activities have been completed,

8 the clean soil will be used as backfill and the

9 properties will be restored. The sod that has

10 been removed will be replaced. Fences and shrubs

11 will also be replaced.

12 In the following figure, first

13 of all, the dark dots are the homes that we've

14 already done the cleanup on, the hollow square

15 boxes are the homes that we've identified as

16 already requiring a cleanup, and then the study

17 area is bounded by the shaded broken lines where,

18 basically, this is the study area where

19 additional sampling could be done if a resident

20 hasn't had sampling done on their property for

21 one reason or another and is interested in having

22 additional sampling performed.

23 Basically, under this

24 alternative, there's an estimated 2,100 cubic

25 yards of soil that would have to be excavated,

1 EPA - 6/23/03 - South Plainfield, NJ
2 and the projected cost for this is approximately
3 \$760,000 and would take about a year to complete.

4 I just want you to keep in mind
5 that this is not a year from today. It's a year
6 from after the additional sampling is done and
7 we've gone out and picked our decision like John
8 discussed previously.

9 So basically, in order to
10 compare the alternatives, although Alternative 2,
11 which is the capping and the deed restrictions,
12 would provide some protection to the properly
13 owners and to the residents, the placement of a
14 cover would leave the PCBs in the soil in place
15 and would have to be managed for the lifetime of
16 that property. The advantage of Alternative 3 is
17 that it would remove all the contaminated soil
18 above 1 part per million, and therefore, it would
19 be protecting both human health and the
20 environment that would come in contact with the
21 PCB-contaminated soil.

22 The disadvantage to Alternative
23 3 is that it's much more disruptive than
24 Alternative 2. During the work, it will be
25 disruptive to both the affected properties, the

1 EPA - 6/23/03 - South Plainfield, NJ
2 estimated 3 plus 12, plus to the neighborhood,
3 but to counterbalance that, it is a final remedy
4 that would address the PCBs, and those properties
5 would never have to be managed over the long
6 term.

7 There are proven procedures that
8 we would implement during the implementation of
9 this work and address those concerns, the
10 engineering controls, the health and safety that
11 would be used to address potential impacts to the
12 residents or to the workers that are performing
13 the work.

14 So those are the alternatives
15 that we evaluated to address the properties that
16 require a cleanup. It is EPA's preference to use
17 Excavation and Off-Site Disposal, which is
18 identified as Alternative 3, to address these
19 properties.

20 The one thing that I think I
21 overlooked in my description of Alternative 2 and
22 3 is that additional sampling can be done during
23 this period for those residents who are
24 interested for their indoor dust to determine
25 whether or not there are levels of exceedances of

1 EPA - 6/23/03 - South Plainfield, NJ
2 PCBs in the interior dust, and both Alternative 2
3 and 3 would require the remediation to cleanup
4 that dust in the homes.

5 So that's, basically, my
6 presentation, and at this time, we'd like to open
7 it up to questions or comments that people have.
8 I'd just like to remind people, as Pat and John
9 said, we'd like to stay focused at this time on
10 questions or comments on this Proposed Plan,
11 Operable Unit 1. After we're done with that,
12 we'll take a quick break, we'll regroup, and
13 we'll answer any questions that you may have
14 about other portions of the work that we're
15 doing.

16 MS. SEPPI: Before we start, if
17 you wouldn't mind stating your name, as I
18 mentioned, so our stenographer will have it for
19 the record along with your comment.

20

21 QUESTION BY MR. BOB SPIEGEL:

22 Q Bob Spiegel. I'm Executive
23 Director of the Edison Wetlands Association. The
24 cleanup standard that you're using is the goal of
25 1 part per million. We recently contacted NJDEP,

1 EPA - 6/23/03 - South Plainfield, NJ
2 and as you know, their criteria is 0.49 parts per
3 million, so essentially, your goal is over twice
4 what their goals are so you're going to be
5 leaving contaminated property behind by using
6 that goal. Is NJDEP then going to require that a
7 deed restriction or deed notice be made on those
8 properties that exceed the 0.49 parts per
9 million?

10 ANSWER BY MR. MANNINO:

11 A Good point, Bob. EPA set up a
12 national policy of 1 part per million for PCBs.
13 The State of New Jersey has cleanup criteria, as
14 you mentioned, of 0.49 parts per million for
15 soil. This plan identifies the cleanup goal of 1
16 part per million. What we've seen in a lot of
17 work that we've done like this is in trying to
18 clean up to the 1 part per million goal, we often
19 achieve that State criteria of 0.49 parts per
20 million; however, if we do not achieve that
21 criteria, as the Proposed Plan states, the State
22 of New Jersey can elect to take additional
23 enforcement actions in order to achieve that
24 cleanup criteria.

25 Q So they would come in after you

1 EPA - 6/23/03 - South Plainfield, NJ
2 get done before you restore the property and do
3 additional remedial work on residents' houses
4 before you come back and backfill the area?

5 A The goal would be that it would
6 be done at the same time.

7 MR. PRINCE: Let me comment on
8 that. Pete used the words "enforcement action,"
9 and I want to make sure that it's put in context.
10 We have had extensive discussions with DEP about
11 the difference in our cleanup goals, and our
12 experience, as Pete said, is that on lots that
13 we're already working on, you tend to
14 overexcavate to be conservative.

15 The result is, typically, that
16 we would meet the State's cleanup goal, and the
17 State's main concern was, are there properties
18 that fit into this little window where they might
19 not exceed one part per million, but they might
20 only exceed the half a part per million, their
21 number, and we don't think that that's likely but
22 it could happen, and the solution that we have
23 been discussing with them is that we would work
24 on this additional window of investigation prior
25 to -- as Pete said, we have some additional

1 EPA - 6/23/03 - South Plainfield, NJ
2 studies we want to do because we think there's a
3 couple more out there we want to make sure we
4 find, that we'll do it with DEP and they'll
5 identify some properties that they think might
6 fit into those windows that they want to
7 investigate, too.

8 And the second thing that Pete
9 mentioned was "enforcement action," and we have
10 not explained, but maybe we should have, that
11 there is an aspect of the Superfund program that
12 involves seeking the involvement of the companies
13 that were responsible for the contamination and,
14 where possible, getting those companies, if they
15 are viable, if they can do it to our
16 satisfaction, having them do the work. And there
17 are several companies, including the
18 Cornell-Dubilier Company, that are still in
19 business, they are well aware of all the work
20 that we've done in investigating these lots and,
21 in fact, the outdoor soil cleanups that were done
22 on the residential properties in the late 1990s
23 were performed under our direction but paid for
24 by these companies, and our expectation is if
25 this is the remedy that we choose, we would have

1 EPA - 6/23/03 - South Plainfield, NJ
2 those companies also performing this work with
3 our oversight and DEP would be at our side and
4 they have a different criteria and if there is
5 that small difference in the properties that
6 falls into that window, the DEP would pursue them
7 to have those --

8 Q Why don't you just have the 0.49
9 as the criteria for the site and not have that
10 difference between one agency doing it or another
11 agency doing it and it would probably go quicker.
12 If there's only a little bit of extra soil, like
13 you're saying, why not just use the 0.49 as the
14 criteria so people aren't left, potentially, with
15 contamination on their property where they have a
16 problem down the road when they'd be selling it.

17 And then just two quick
18 follow-ups and then I'll let somebody else go.
19 You were just recently quoted as saying, "This is
20 a unique site" in the paper, and would it be fair
21 to characterize this as this is probably one of
22 the most contaminated sites that we have out
23 there due to the number of contaminants, the
24 volume and how far it spread; and then the second
25 thing would be the monitoring that we had

1 EPA - 6/23/03 - South Plainfield, NJ
2 requested at the last meeting, you were going to
3 go back and resample the homes that you
4 previously cleaned as part of this, correct?

5 A Yes.

6 Q So if you find levels of PCBs in
7 these people's homes that were previously
8 cleaned, wouldn't that indicate to you that there
9 is a potential ongoing pathway to the site into
10 the residential homes that would require
11 monitoring at the fence line, because I went to
12 the site the other day and that site is not
13 completely vegetated. It has a lot of open areas
14 that there's open soils on the property where you
15 could obviously see that there's potential for
16 dust to continue to migrate, so if you do find
17 exceedances in the houses that were cleaned,
18 might that indicate that you may need to see some
19 monitoring to see what's on the site?

20 MR. PRINCE: That's a couple of
21 questions.

22 Q The first one should begin at
23 the 0.49.

24 MR. PRINCE: It's now within the
25 EPA's decision-making to go beyond the 1 part per

1 EPA - 6/23/03 - South Plainfield, NJ
2 million. It's a nationwide policy. That's the
3 approach that we have taken as an agency, and we
4 could go into -- although I would choose not to
5 at this meeting, we could go into differences in
6 how you get a number like 0.49. Well, it's a
7 risk calculation. What goes into that risk
8 calculation? Well, there's all sorts of
9 assumptions that you need to make, and one of the
10 reasons why we don't necessarily accept DEP's
11 number is there are different assumptions that
12 might have gone into their picking that number
13 that we don't agree with. So the result is that
14 as an agency, we have that standard that we use
15 across the country. That's Part 1.

16 Part 2 was monitoring?

17 MR. SPIEGEL: Monitoring and the
18 sampling inside the residences.

19 MR. PRINCE: We performed work
20 on these properties in the late 1990s, including
21 indoor cleanup work and outdoor soil work, and
22 did follow-up sampling after we were done to make
23 sure we were done. We are now picking a remedy
24 that, in essence, is very similar to what was
25 done on those properties, but just as a

1 EPA - 6/23/03 - South Plainfield, NJ

2 precaution, we're going to revisit those lots
3 again and make sure that the cleanup that we've
4 done there is consistent with what we would like
5 to choose now. You proposed a hypothetical,
6 which was if we then go back to those lots
7 sometime in the future and we find contamination,
8 would that suggest something, and I suppose that
9 it might.

10 You tied that to a second
11 question, which was, well, there's a facility
12 there and there's very high levels of PCBs in the
13 soils on that facility, and isn't there a concern
14 that there's dust generated and that dust might
15 be leaving the site. I think that's, in essence,
16 what you said, Bob.

17 MR. SPIEGEL: An ongoing
18 problem.

19 MR. PRINCE: An ongoing problem,
20 and EPA is pretty clear in the studies that were
21 done that the cause of the stuff that's gone off
22 the site is either truck traffic leaving the
23 facility during the 30-odd years of operation and
24 then the years beyond while it wasn't completely
25 paved and while there wasn't vegetation over that

1 EPA - 6/23/03 - South Plainfield, NJ
2 back lot.

3 And the other possibility is
4 windblown contamination. We think that's
5 probably why there is this relatively low level
6 on residences nearby the facility. We've taken a
7 bunch of actions at that facility. We think that
8 including, probably most importantly, fencing off
9 and vegetating the rear of the facility and
10 stopping the truck-driving training school in the
11 back of the lot unpaved and it was very dusty,
12 and we feel that that on-site problem is
13 addressed at this point. It doesn't mean that
14 it's the solution by any means for the on-site
15 problems. We don't feel there is a migration
16 potential anymore.

17 MR. SPIEGEL: Do you have any
18 monitoring at the fence line to prove that your
19 theory is correct, that there is no contamination
20 and/or vapors from that site leaving the
21 property?

22 MR. PRINCE: We haven't done any
23 sampling in the last three years for that.

24 MR. SPIEGEL: So you're making
25 an assumption but have no data to back it up.

1 EPA - 6/23/03 - South Plainfield, NJ

2 MR. PRINCE: That's right, but
3 I'm making a -- EPA has made an assumption based
4 on experience at this and other sites, yes.

5 MR. SPIEGEL: Thank you.

6
7 QUESTION BY MS. ALLISON SPEISER:

8 Q I'm with Edison Wetlands
9 Association. You've been talking both about the
10 contamination on residential property and
11 commercial. For clarification purposes, could
12 you go over the criteria you're using for the
13 soils on residential properties, interior dust in
14 residential properties, as compared to those
15 criteria that you're using for the actual
16 property of the soil and dust?

17 ANSWER BY MR. MANNINO:

18 A We're talking about sites on the
19 residential and commercial property that surround
20 the vicinity of the Industrial Park.

21 Q I understand that, but just for
22 comparison purposes so we can get an idea of the
23 differences, could you go over the difference?

24 MR. MANNINO: Typically, EPA has
25 a cleanup criteria for commercial properties. We

1 EPA - 6/23/03 - South Plainfield, NJ
2 haven't selected a cleanup criteria for the
3 Industrial Park at this time; that is, the
4 property we talked about earlier. If you'd like,
5 we could discuss it further later tonight.

6
7 QUESTION BY MS. GALE FINN:

8 Q Who decided or what decided the
9 boundary?

10 ANSWER BY MR. MANNINO:

11 A Basically, we looked at the data
12 that was collected up to 1998, and we expanded
13 upon that, and we looked at what would be a
14 worse-case scenario for a dust-blown or
15 traffic-blown situation. So for example, in the
16 western portion, we were looking at areas along
17 Cgsciusko and Harvard, along those streets, and
18 then with the Roosevelt School being nearby, we
19 decided that it would be safer if we went up to
20 Roosevelt School and sampled Roosevelt School to
21 make sure that there was no impact to the
22 children at that school.

23 We took a similar approach in
24 looking in the other directions on New Market
25 Avenue and on Belmont, and what you typically see

1 EPA - 6/23/03 - South Plainfield, NJ

2 in the result is that we defined those boundaries
3 pretty well based on the last sampling that we
4 did in 2000. Is it an absolute? Those lines are
5 not complete boundaries. If there's someone
6 nearby those boundaries that would like to have
7 their properties sampled, give me a call and we
8 could look at that.

9 Q My actual question is that the
10 Bound Brook runs through past the property into
11 what is a landfill down by the football field
12 which was built on -- I won't call it a dump, but
13 landfill, and recently, I'm not sure you're aware
14 that we had some bubbling crud coming up in the
15 football field which the Bound Brook goes through
16 and where it is now the landfill and, of course,
17 it had a beautiful swamp right behind it by the
18 wetlands, so as you're saying, as a home owner or
19 resident, we can ask for that to be tested, but
20 could we ask for that to be tested down around
21 that entire area where the Bound Brook runs where
22 our children are?

23 And one other point, exactly
24 across the street from your corner at Pitt and
25 Bergen, maybe 50 yards away from there is the

1 EPA - 6/23/03 - South Plainfield, NJ
2 girl's softball field, and I didn't know if that
3 is that under testing.

4 ANSWER BY MR. MANNINO:

5 A Let's talk about the Bound Brook
6 first. EPA has done extensive sampling along the
7 Bound Brook corridor. That's part of Operable
8 Unit 3, which we discussed earlier. We collected
9 well over a thousand samples over a 2 1/2-mile
10 stretch of the Bound Brook corridor.

11 What we found was that there
12 were low levels of PCBs in the sediments and
13 along the banks of the Bound Brook. Because of
14 that, we targeted four different areas for
15 sampling at higher elevations near the Bound
16 Brook corridor where we felt that there was a
17 potential for flooding to impact on the
18 surrounding community. One was Veterans Memorial
19 Park where we did sampling. The other one was in
20 the areas near Fred Allen and Schillaci, and we
21 also looked at the area near Highland and New
22 Market Avenue.

23 We then took the two worst areas
24 out of that sampling event, and that was Lowden
25 and Oakmoor and then Fred Allen and Schillaci.

1 EPA - 6/23/03 - South Plainfield, NJ

2 What we found on those sampling events was that
3 although there was some sporadic hits of PCBs in
4 the soils, with the exception, I believe, of one
5 sample out of some odd -- I want to say about 74
6 samples, none of them exceeded either the State's
7 cleanup criteria of 0.49 parts per million or
8 EPA's criteria of 1 part per million.

9 When you look at near Pitt
10 Street, on Bergen and on Hancock, in that general
11 direction, there were no exceedances of either
12 the State's cleanup criteria or EPA's cleanup
13 criteria, so for us to go further away --

14 Q But it seems to me if the
15 Brook's going by the landfill and the landfill is
16 over the baseball field, which does sink 3 or 4
17 inches a year, and the Dismal Swamp going out
18 behind it, wouldn't that be a place where the EPA
19 should just target when you have 500 kids a year
20 playing on it?

21 A We're going to be doing
22 additional investigation as part of Operable Unit
23 3 that is going to be beginning shortly. If
24 you'd like, we can talk about that after this
25 meeting, but based on the sampling we did in the

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2 floodplains and on the residential properties, we
3 didn't see the Industrial Park impacting the
4 areas that you're describing.

5 Are there other potential
6 sources that are impacting those? That's
7 something that we would have to look at but we
8 couldn't address under this plan at this time.

9 Q So should my kids play there
10 next year or not? I think we should close down
11 the facility.

12 A We have no data to indicate that
13 any of those parks should be closed.

14 Q But you haven't collected data.

15 A Not related to this site.
16 That's correct.

17 Q So you have no data, and to get
18 that data collected, we have to do what?

19 A The next sampling event is
20 probably going to start sometime this summer or
21 early fall, but you have to keep in mind, doing a
22 tiered approach here, we can't go out and sample
23 every location in South Plainfield and --

24 Q I understand that, but we're
25 talking about children playing on baseball fields

1 EPA - 6/23/03 - South Plainfield, NJ
2 and water and somewhere, the priority has to be
3 above what happens with the dust and -- as I
4 said, I've been sitting there for 20 years. Am I
5 going to glow in a year and a half?

6 A It's a valid argument, okay?
7 However, for example, we looked at Veterans
8 Memorial Park. We had done additional sampling
9 on Veterans Memorial Park, and there were low
10 levels of PCBs in Veterans Memorial Park.

11 Q Did you miss something there?

12 A The park was closed; however,
13 there are other issues in Veterans Memorial Park
14 other than the PCBs. There's asbestos and some
15 other issues that are unrelated to the work
16 that's being done at the Industrial Park and
17 contaminants that are coming from the Industrial
18 Park, so are there other issues in South
19 Plainfield that are unrelated to the
20 investigation we're doing at the Industrial Park?
21 Potentially. I can't, unfortunately, go out and
22 sample every location in South Plainfield and
23 Piscataway --

24 Q Could you give us a little kit
25 and we'll do it for you?

1 EPA - 6/23/03 - South Plainfield, NJ

2 A If you'd like, as I said, after
3 this meeting, we could talk a little bit more
4 about the Bound Brook investigation and other
5 sampling we're going to be doing as part of those
6 investigations.

7
8 QUESTION BY MR. JOE ANIENUS:

9 Q You touched on deed restrictions
10 with respect to residential sites. Would you
11 just expand on that or define that, please?

12 ANSWER BY MR. MANNINO:

13 A If we don't clean up to EPA's
14 criteria of 1 part per million, there would have
15 to be some kind of notice on a deed or a title
16 that would indicate that this property is
17 contaminated and that future purchasers have to
18 be aware that they are buying a property that has
19 these exceedances of PCBs. As Mr. Spiegel
20 mentioned earlier, the State has the cleanup
21 criteria of 0.49 that if that's not met, the
22 State could look at, potentially, deed
23 restrictions for those properties, also.

24 Q Do you see that as a problem?

25 A That's not the alternative that

1 EPA - 6/23/03 - South Plainfield, NJ

2 I'm saying we should be doing. I'm saying we
3 should excavate and clean up to the appropriate
4 criteria so that deed restrictions are not
5 necessary.

6 MR. PRINCE: The purpose of the
7 deed restriction is to assure that the remedy
8 that we leave in place, you want to make sure it
9 stays in place, and one way to do that is to
10 insure that the next owner knows that there's
11 some issue there, and so it's done all the time
12 on many properties and we certainly should
13 consider it here and it's part of our feasible
14 alternatives as a possible remedy. It's an
15 ecological management, EPA would be involved in
16 that, and for this relatively small level of
17 contamination, relatively low levels on not many
18 properties, it seems to me that EPA's position is
19 it would make far more sense to solve the
20 problem.

21
22 QUESTION BY MR. ANTHONY RISOLI:

23 Q I have a question. You already
24 moved contaminated products from the township
25 from the residential areas that you already

1 EPA - 6/23/03 - South Plainfield, NJ
2 cleaned up?

3 ANSWER BY MR. MANNINO:

4 A Yes.

5 Q So you already removed some
6 contaminated products.

7 A There was soil and dust at 13
8 properties that has been already removed.

9 Q That has been removed from the
10 town?

11 A Yes.

12 Q The routes that the trucks took
13 to remove the product to the final location,
14 where did the product go?

15 A The soils went to, I believe, a
16 facility in Pennsylvania.

17 Q And it went from the sites to
18 what route?

19 A I'm sorry. I don't have the
20 exact route on me and that was years ago. It had
21 to go on Hamilton Boulevard at one point, and
22 where it went there to get to 287 --

23 Q That was my concern because you
24 show on your figures that here's a higher degree
25 of contamination along Hamilton Boulevard, and to

1 EPA - 6/23/03 - South Plainfield, NJ
2 reach 287, the truck route that you're going to
3 pick, the dust contamination from the route that
4 you're picking, what position is EPA taking to
5 minimize the dust contamination along the route
6 before you get to a major intersection or major
7 interstate, and if you're going to take Hamilton
8 Boulevard, I could understand. Hamilton
9 Boulevard's going to go through a major
10 reconstruction where the surface coverage may not
11 be optimum at the time of removal of the
12 contaminated soil, making your route highly
13 susceptible to more contamination because of the
14 routes that you're picking.

15 What is the EPA going to do and
16 what provisions have been made in the further
17 removal of contaminated soil from the township to
18 protect the residents as the contaminated soil is
19 removed from dust contamination in a very high-
20 traffic area as Hamilton Boulevard as it goes to
21 287, or have you made other provisions to remove
22 the product via rail?

23 A Before we begin any work, we go
24 through a process of developing the next set of
25 plans, and part of it discusses what is the route

1 EPA - 6/23/03 - South Plainfield, NJ
2 that it will be taking and what provisions are
3 going to be in place to insure that there is no
4 additional dust generated or any spills from
5 those vehicles, so those provisions will be put
6 in place as those plans are developed.

7 MR. PRINCE: As a standard
8 practice, we decontaminate any trucks that have a
9 potential to come into contact with contaminated
10 soil before they left that site.

11 Q Are they enclosed?

12 MR. PRINCE: Yes, they're
13 sealed. You have a very good sort of set of
14 questions of how this is implemented, and we have
15 really talked about that and we can go into it in
16 more detail, but the simplest way that I might
17 explain it is if we can't do the cleanup safely
18 and prevent contamination from being spread
19 around, we can't do the cleanup, and there are
20 some sites, some places, where it doesn't make
21 sense for various reasons to actually take an
22 action because it's more destructive than it
23 would be to leave the material there; and for
24 these residences, it's far better and very
25 manageable, something we do all the time, to do

1 EPA - 6/23/03 - South Plainfield, NJ
2 the cleanup, get the stuff into appropriate
3 vehicles, get them off there, get them to the
4 disposal facility and then do the restoration.

5 Q I have a question and I don't
6 know if this is the appropriate time, but you did
7 sampling on the interiors of the homes and you
8 did sampling along the Bound Brook. Have you
9 considered doing any sampling, again, with truck
10 routes, in reference to the integrity of wells
11 along those truck routes or anybody who has wells
12 in that area and are using those wells as part of
13 their drinking water?

14 In other words, there is some
15 city water along those routes and in that area,
16 but there are still homes that have working wells
17 in that area. Has there been water samples
18 taken, or is there a plan to have water samples
19 taken? After you disturb the ground, you may
20 have a different water flow into wells that are
21 still operating in that general vicinity. Is
22 there anything being done in that manner?

23 ANSWER BY MR. MANNINO:

24 A Going back to 1998, the State of
25 New Jersey DEP conducted extensive sampling of

1 EPA - 6/23/03 - South Plainfield, NJ
2 residential wells in the area of the Industrial
3 Park, and they found elevated levels of
4 trichlorethylene in those wells, not PCBs. As a
5 result, those wells were shut down by the State
6 of New Jersey. As part our third operable unit,
7 we're going to be doing a larger groundwater
8 investigation, but as a final point on your
9 question, any residents who call me having
10 concerns because they live in the area and they
11 still have a private well, we take the measures
12 that are necessary to do the sampling on those
13 wells.

14
15 QUESTION BY MR. WILLIAM HOGAN:

16 Q Concrete samples were taken in
17 Columbia Products which is now occupied by
18 Jimmy's Truck, and the PCBs levels there were
19 21,200 parts per million. Now, when and if your
20 people are going to go ahead and demolish those
21 buildings, there's going to be an awful lot of
22 dust. Now, you've been saying you're going to
23 wash it down with water, but however, there's
24 going to be some contamination again on the
25 houses on Spicer Avenue because of this action,

1 EPA - 6/23/03 - South Plainfield, NJ
2 and what precautions are you going to take? The
3 fellow over there, he said he wants monitors on
4 the fence line, which I think should be done.
5 That has to be done.

6 ANSWER BY MR. MANNINO:

7 A I don't mean to not answer your
8 question completely, but I really want to focus
9 in on the work we plan on doing at the Industrial
10 Park and we'll talk a little more about that
11 later, but what I will say now is any work that's
12 done, measures will be in place, including air
13 monitoring, just to insure that those properties
14 near the Industrial Park are not recontaminated,
15 so we do extensive air monitoring at any time we
16 do work.

17 For example, even when we're
18 talking about the work that we plan to do on
19 residential properties, the excavation of a
20 couple of hundred yards of soil, there is a
21 system or network of air monitoring system put in
22 place to insure that excess dust is not being
23 generated and there are no exceedances.

24 Q And that doesn't stop?

25 A We stop work if there's an

1 EPA - 6/23/03 - South Plainfield, NJ
2 exceedance of any of the air-monitoring stations.

3 Q They have someone there?

4 A At all times the work is being
5 done, those air-monitoring stations are
6 operating. There are people that collect data
7 continuously.

8 Q Is there a chart there?

9 A There's two parts of it.
10 There's an hourly read-out, and then there's a
11 printout of the data for the whole day, so
12 someone's continuously monitoring it and at any
13 time if we have exceedances, we have to stop
14 work. We have to really determine what went
15 wrong, why we had those exceedances and what
16 additional measures we have to put in place to
17 make sure it doesn't happen again.

18 Q One other thing. I've got
19 another question here. The gentleman to your
20 right said that there might be other PCBs
21 entering the Bound Brook stream. Could you
22 elaborate? Who's dumping PCBs on that site?

23 ANSWER BY MR. PRINCE:

24 A There's another Superfund site
25 in Dismal Swamp called Woodbrook Road.

1 EPA - 6/23/03 - South Plainfield, NJ

2 Q Also, every PCB in South
3 Plainfield has been created and -- but I grew up
4 in this town so I know. I seen it. That water
5 from the Bound Brook stream used to be running
6 yellow in there. Now, for that contamination to
7 go down that far, the gentleman over there said
8 something about the wells, which was one of my
9 questions. That well there contaminated -- I
10 mean that dump site contaminated everything else,
11 which leads up to remedy, and you said "remedy,"
12 which means you people are going to go back and
13 decide how you're going to clean up this mess.
14 Am I right on that? Are you going to clean it
15 up?

16 ANSWER BY MR. MANNINO:

17 A We're talking about the
18 Industrial Park. By the end of the summer, the
19 plan is to have another meeting like this where
20 we identify EPA's preferred alternative on how to
21 address the Industrial Park. I don't mean to cut
22 you off, Mr. Hogan, but if we could talk about
23 the Industrial Park --

24 Q That's what we're talking about.

25 A That's a good question, but we

1 EPA - 6/23/03 - South Plainfield, NJ
2 can talk about that at the end of this meeting.
3 First, let's address everyone's questions
4 regarding the residential and commercial
5 properties under this plan, and then after that
6 meeting, we'll take a quick break and then we'll
7 answer any questions that you have on the
8 Industrial Park and other sites in the area.

9 Q How many more homes are there,
10 maybe like 17 more?

11 A We found three homes as of our
12 last sampling investigation that will require
13 soil cleanup, and there's one additional home
14 that was sampled prior to our last sampling event
15 that requires a cleanup, so there's four
16 properties that we know.

17 Q What streets are they on?

18 A One on Spicer, one on Hamilton,
19 one on Arlington and then which one have I left
20 out? Two on Hamilton, excuse me.

21

22 QUESTION BY MR. PAUL GARFIELD:

23 Q I have a question about the
24 cleaning you're going to do on the residential
25 properties. As I understand it, you're going to

1 EPA - 6/23/03 - South Plainfield, NJ
2 clean some additional off-site properties. When
3 I say "off-site," I'm talking about off the
4 Cornell-Dubilier site, right?

5 A There are four that we know of,
6 and based on the additional sampling that we're
7 going to do in the chart I showed before where we
8 had some exceedances still, we estimate there may
9 be another 12 that will require this cleanup, and
10 then the other number put out there is based on
11 people who call up and say, "I would like to have
12 the interior of my home sampled." We're
13 estimating there may be another seven homes that
14 will require cleanup.

15 Q Now, as I understand it you have
16 no data along this fence line and you haven't
17 resampled the properties that were already clean,
18 so my question is without cleaning up the site,
19 the source, what harm would there be and how much
20 greater expense would there be to EPA to just
21 retest the areas that were clean, however many
22 years that you've done that, three, five, I don't
23 know, and test them because what if you're wrong?
24 What if without any data along the fence line,
25 without any retesting out of these properties you

1 EPA - 6/23/03 - South Plainfield, NJ
2 did, that you discover down the road that's
3 recontaminated? Now, you go and clean new
4 properties, you have that same problem again.
5 I've seen it happen and I've been involved in
6 situations where that has happened, and I'm
7 wondering then what have you really accomplished
8 and without that data, how can you implement this
9 plan without spending a little money to just back
10 yourself up to make sure you're right, because
11 if you're wrong, you may clean up something
12 that's going to just get dirty again and keep
13 going down the road and happen again.

14 A Couple of good points you made,
15 the first regarding we have no data on this fence
16 line. We have a ton of soil data, but what we
17 haven't been collecting over this period of time
18 is the air-monitoring data. I'm not sure how
19 familiar you are with the Industrial Park. I'm
20 going back four or five years, going back to
21 probably 1997, but for those people who are
22 familiar with the area and know about the
23 activities at the Industrial Park, any time you
24 went near that park, there was a cloud of dust
25 coming off that Industrial Park. No matter what

1 EPA - 6/23/03 - South Plainfield, NJ
2 time of day it was, there was heavy traffic going
3 in and out. You actually saw dust coming from
4 the Industrial Park. None of the areas were
5 paved, none of the areas were vegetated. You go
6 by there now, all active areas are paved with
7 asphalt. The unpaved areas are fenced and are
8 well vegetated.

9 Now, Mr. Spiegel may disagree
10 with me on what "well vegetated" is and that's
11 his prerogative; however, there's clearly a
12 difference in the conditions from 1997 to today.
13 Does that mean that there is no off-site
14 migration of contaminants? I can't say that with
15 100 percent assurance.

16 Q If you don't know, how much
17 would it cost and what would it hurt to test that
18 now before you do this other cleanup to make sure
19 you're not -- I'm sure you're all working very
20 hard on it, but wouldn't you want to know that
21 before you did it, and I have a whole host of
22 other questions, but that's for some other part,
23 but wouldn't you want to know that before you go
24 and clean this other area, that you were right,
25 because if you make a mistake, you just spent a

1 EPA - 6/23/03 - South Plainfield, NJ
2 lot of money for nothing, so why not invest a
3 little now?

4 A That's a valid point, and before
5 we actually perform the cleanup on these
6 properties, additional sampling needs to be
7 performed on the properties to determine how much
8 volume of soil is going to be removed. During
9 that period, which we call our design phase, we
10 can collect additional data that you're talking
11 about and do the air monitoring before we
12 actually begin any kind of cleanup. We don't
13 have any intentions of cleaning up these three or
14 four properties and then determining that the
15 others were recontaminated previously.
16 Additional sampling has to be collected before we
17 perform any of this additional work, and there's
18 no reason why that additional data couldn't be
19 collected.

20 Q But will it be collected? I
21 understand that you can't commit today, but is it
22 your intention in the phase of this program to do
23 that?

24 A Yes.

25 MR. PRINCE: We have thought

1 EPA - 6/23/03 - South Plainfield, NJ
2 along the same lines in a couple of ways and in
3 that way, we have already done some cleanup and
4 it makes sense for us to revisit those homes and
5 make sure that they're consistent with what we
6 plan on doing and to assure that there is not
7 some sort of a recontamination effect going on,
8 and along those lines, it probably makes sense --
9 I know it's hard for you all to make sense of
10 this because many of you are hearing about it for
11 the first time, but I want you to try to put this
12 a little bit into perspective in this way, and
13 that is that that facility operated from the 30s
14 to the 60s and that it was unpaved until the 90s,
15 so that's about 60 years of opportunity for dust
16 to be spread around, and there are thousands and
17 thousands of parts per million and high levels of
18 PCBs in the soils on that facility.

19 I don't want to mislead you.
20 There are very high levels there, and we found
21 relatively low levels, unacceptable levels, but
22 relatively low levels of PCBs in surface soils on
23 a few lots relatively close to the facility. We
24 expanded the investigation, found a trend that
25 suggested that it was even less as you move

1 EPA - 6/23/03 - South Plainfield, NJ
2 further away, and the likelihood that in the few
3 years since the paving took place, that this
4 process has sort of restarted itself, it's
5 possible but it's unlikely, and we can do that
6 sort of testing as well.

7

8 QUESTION BY MS. SANDY SUVERINI:

9 Q I have one comment and one
10 question. The comment is, the idea of monitoring
11 of the fence, it would make me feel much safer,
12 and my question to you is, the sampling that you
13 did in the Bound Brook, when was that done?

14 ANSWER BY MR. MANNINO:

15 A The sampling was done before
16 Hurricane Floyd, about 1998, '99.

17 Q The Bound Brook fluctuates with
18 the weather, so couldn't the weather we've had
19 this past year have affected it because it sort
20 of seems to me that you sort of dead-ended your
21 sampling on Belmont Avenue which makes me
22 concerned because I actually spend more time at
23 the baseball and football fields than I do in my
24 own backyard on Spicer, so I'm just very
25 concerned about that area and that being so long

1 EPA - 6/23/03 - South Plainfield, NJ
2 ago and with the fluctuations of all the rain and
3 everything, could that not, in your experience,
4 change things?

5 A Sure, flooding over time could
6 move some of the contaminants. That's why as
7 part of our investigation for Operable Unit 3, we
8 need to do additional sampling.

9 Q And that would be before the end
10 of this summer, you said?

11 A Yes.

12 MR. PRINCE: Why don't you put
13 up the figure again that shows the floodplain
14 area sampling that we did, because that was part
15 of our sampling approach which was -- there was a
16 possibility when we were starting the study that
17 there is flooding that's spreading the PCBs
18 contamination. We know it's relatively low
19 levels, but it's unacceptable levels. There's a
20 possibility that it's getting spread to other
21 land, and we specifically targeted some areas,
22 residential areas, that we felt were most likely
23 to have been inundated sometime, and therefore,
24 it would be a possibility that there would be
25 residues not from one source, not from any single

1 EPA - 6/23/03 - South Plainfield, NJ
2 event, but again, over 60 years.

3 MR. MANNINO: So the top left
4 area, we have two areas that we sampled, Fred
5 Allen and Schillaci and then Lowden and Oakmoor.
6 What's not on here is the sampling that we had
7 done from, basically, at the Cornell facility all
8 the way down the Bound Brook corridor and other
9 floodplain areas along there.

10 Q What I'm seeing is that you
11 didn't go beyond the Belmont border.

12 A Right.

13 Q Show us where the baseball
14 fields are.

15 A The baseball fields are right
16 about here, right?

17 Q Right, and the football fields
18 are behind that.

19 A Right.

20 Q And where the Dismal Swamp is
21 where the people have been evicted as of July
22 1st, I believe, the Dismal Swamp is right behind
23 there where they've been evacuated runs through
24 the baseball field and then landfill and then to
25 Bound Brook, so I don't see anywhere on there

1 EPA - 6/23/03 - South Plainfield, NJ
2 where you checked that.

3 A The Bound Brook flows from this
4 direction down this way. That's the flow of the
5 Bound Brook. When looking at flooding, based on
6 the data that we have seen downgrading of the
7 Industrial Park, flooding has not impacted the
8 residential properties that are adjacent to the
9 floodplain.

10 Now, do we need to do additional
11 work upgrading the site? Yes, and we're going to
12 be doing that because there's also another
13 Superfund site which we talked about, the
14 Woodbrook Dump site that's upgrading the Dismal
15 Swamp site, so as far as additional
16 investigations, we are going to be looking at
17 that section of the Bound Brook corridor.

18 Now, have we looked at
19 properties in this area here to determine whether
20 or not, since they are in the back of the
21 Industrial Park, whether or not the Industrial
22 Park has impacted them? Yes, we did sampling all
23 along these areas, and what we found was there
24 were a few exceedances, and when we did the
25 extensive sampling, there was no impact to those

1 EPA - 6/23/03 - South Plainfield, NJ
2 residents from the Industrial Park, so when
3 looking at the windblown and from flooding, we
4 didn't find any problems with any of those homes;
5 however, do we need to do additional work because
6 of other sites that we're finding in the area?
7 Yes, but that's going to happen shortly over
8 time.

9 MEMBER OF THE PUBLIC:

10 Q "Shortly and over time," doesn't
11 seem to make sense.

12 A Sorry. I understand your
13 concern, but based on all the data that we
14 collected, and I know we don't have any data from
15 that football field and I can't go out there
16 tomorrow and collect the data, what we found in
17 the area right around the Industrial Park is that
18 those properties in the area that you're talking
19 about haven't been impacted. Are we going to do
20 additional work? Yes, we are going to do
21 additional work as a result of the other site
22 that was identified.

23
24 QUESTION BY MR. ERIC HOLDERMAN:

25 Q Could you go to the preceding

1 EPA - 6/23/03 - South Plainfield, NJ
2 slide that you had before?

3 A Sure.

4 Q I live on Schillaci Lane.

5 You've been sampling all the way up to Sampton
6 Avenue and we've never had flooding on Sampton
7 Avenue. If we did, we'd be in bad shape. We'd
8 be under water. Why would you do sampling all
9 the way up to Sampton Avenue?

10 A When I was looking at the
11 extensive sampling we were going to do, in my
12 mind, it didn't make sense to take an arbitrary
13 line and say, "I'm going to stop sampling here
14 because because your property may have been
15 sampled and your neighbor wouldn't have been
16 sampled," and then potentially, your neighbor
17 would say, "Why didn't you sample my property?"
18 so there were a few extra samples that we had
19 left and we wanted to cover the whole entire area
20 to see, also, if there was a pattern, at what
21 elevation has flooding impacted these properties,
22 here is clearly a line where, potentially, the
23 problem begins and ends and this is an area where
24 there's no longer a problem.

25 What we found was that there is

1 EPA - 6/23/03 - South Plainfield, NJ
2 no line on Fred Allen and on Schillaci.
3 Basically, the problem is isolated to the banks
4 within the floodplain of the Bound Brook and
5 hasn't impacted any of those properties on Fred
6 Allen or Schillaci.

7 Q The other question I have is,
8 next-door neighbor bought his kid, just recently,
9 an all-terrain vehicle, a TCD, and the kid takes
10 it into the area along the banks of the Bound
11 Brook corridor. Now, that hasn't been sampled.
12 He comes back and he washes off the residue
13 underneath the vehicle and everything washes
14 down, the water flows down the street and I'm
15 getting little sandbars in the gutter where my
16 house is. Now, how hazardous is that if it
17 hasn't been tested in the corridor, the Bound
18 Brook corridor?

19 A Most of the Bound Brook corridor
20 has been sampled. A 2 1/2-mile stretch has been
21 sampled, and that sampling was done back in the
22 '97, '98 time frame. We looked at that data and
23 we said there are recreational users in the Bound
24 Brook corridor. For example, there's fishing and
25 people who go hiking and use the trails. We had

1 EPA - 6/23/03 - South Plainfield, NJ

2 our risk assessors look at the data, and what
3 they said was that for the recreational user, the
4 levels that we're finding don't pose a threat to
5 those users.

6 Q What about people who are
7 fishing in New Market Pond?

8 A What we did in New Market Pond
9 is back in 1997, we posted with the New Jersey
10 Department of Environmental Protection a fishing
11 and hunting advisory that basically said it's
12 safe for you to catch, but you must release all
13 fish from the whole Bound Brook corridor all the
14 way down to the Raritan River that the State of
15 New Jersey imposed, and they imposed that fishing
16 and hunting advisory throughout the state in
17 different areas of the state, not only in this
18 area.

19 Q You don't see any signs. There
20 are no signs there.

21 A We posted signs at times because
22 various people take those signs down. We tried
23 to work in the past with the Borough of South
24 Plainfield on posting additional signs, and if
25 the Borough feels that additional signs should be

1 EPA - 6/23/03 - South Plainfield, NJ
2 posted, we would work with the Borough on doing
3 that.

4 Q People fish by the Clinton
5 Avenue Bridge, and there's no signs there.

6 A If you want to talk a little
7 more about fish, we can take that a little
8 further later on.

9
10 QUESTION BY MARIA SHAY:

11 Q I have a question regarding the
12 same area, the Fred Allen area. You said you
13 tested that like in 1997.

14 ANSWER BY MR. MANNINO:

15 A No, that was in 2000. That was
16 the most recent sampling that we did, in 2000.

17 Q So it was after the Hurricane
18 Floyd?

19 A Yes.

20 Q I know that whole area was all
21 flooded at the time. Okay.

22
23 QUESTION BY ANDREW TIGNARO:

24 Q What were the levels around the
25 Roosevelt School area?

1 EPA - 6/23/03 - South Plainfield, NJ

2 ANSWER BY MR. MANNINO:

3 A There were some concentrations
4 of PCBs detected; however, I don't know off the
5 top of my head, but the lowest concentrations
6 were well below -- it was 0.0 something, if I'm
7 not mistaken, and we'll look that up.

8 MR. PRINCE: In the world we
9 live in, we can go just about anywhere, with the
10 type of implementation that we have today, and we
11 can find some level of PCBs and they're pretty
12 ubiquitous, and that's why there are these
13 standards and the levels were below that, even
14 the DEP's more restrictive numbers.

15 MR. MANNINO: The average is not
16 in the document I have here. If you'd like, you
17 can give me a call tomorrow in the office. My
18 number is all over these documents that we have
19 here, and I'll put out the exact number for you,
20 but as we said, it's well below even the most
21 strict numbers.

22

23 QUESTION BY JANET LAPSLEY:

24 Q On your Figure 3, my
25 question is, I understand you're doing additional

1 EPA - 6/23/03 - South Plainfield, NJ
2 sampling and I understand Hamilton Boulevard and
3 Spicer and Delmore, but when you get down between
4 Fulton and Delmore, you have a sampling area on
5 one side of Delmore, and then you skip over to
6 Arlington and then you skip over to Belmont. Can
7 you tell me how you define or how you figured out
8 which areas you were going to resample?

9 ANSWER BY MR. MANNINO:

10 A First of all, in Figure 3,
11 where you see the dotted line at the boundary, we
12 sampled almost every property. We sampled all
13 curbside right-of-ways within those boundaries.

14 Q Okay.

15 A Now, the shaded areas show areas
16 where that curbside right-of-way have exceedances
17 of either the State's 0.49 or EPA's 1.0 criteria,
18 so the shaded area shows everywhere we had an
19 exceedance and that's why we're recommending at
20 those locations, we need to do additional
21 samplings.

22 Q You're saying that a house in
23 the middle of the block with houses on either
24 side could possibly have PCBs but their neighbors
25 not? Is that basically, you know...

1 EPA - 6/23/03 - South Plainfield, NJ

2 A It is possible, and what we saw
3 on the cleanup of the homes on Spicer and Delmore
4 Avenue, and some people are well aware, their
5 neighbor's property was cleaned up because they
6 had elevated levels of PCBs on their property
7 whereas their property didn't have those levels
8 of PCBs and did not require a cleanup, so when we
9 find PCBs on one property on a block, it doesn't
10 mean that the whole entire block or that whole
11 entire area had those high levels of PCBs.

12 Q So you said you sampled, but how
13 are you determining that you're going to resample
14 these certain areas when my house is in the
15 middle of this area, you're resampling on either
16 side of me, and how do I know that my property
17 isn't the one that doesn't have the PCBs?

18 A The simple answer to that is if
19 you want your property sampled, we'll sample your
20 property. So, say, the purpose of this is to say
21 there are certain homes that we need to take
22 another look at because we have some limited data
23 that we're not sure is representative of the
24 property or not. There is no need, however, to
25 sample every single home on these 13 streets;

1 EPA - 6/23/03 - South Plainfield, NJ

2 however, if you're concerned because either your
3 property wasn't sampled or you just want to be
4 reassured because your neighbor has some elevated
5 levels and their property is being sampled, we
6 can also, if you want, have your property
7 sampled.

8 Q I think during the original
9 criteria six years ago, and I don't have the
10 sampling results with me, that we were within the
11 range of PCBs, but when you've got people who've
12 got properties on either side of you, it makes
13 you wonder if in the five or six years that you
14 did the original sampling, has anything changed?

15 A Sure, and that's why what we're
16 saying tonight is if you want additional
17 sampling, we are offering it.

18 Q Give you a call?

19 A Give me a call and we'll arrange
20 for the additional sampling.

21 Q Thank you.

22
23 QUESTION BY JOE DEKAS:

24 Q I live on Delmore Avenue right
25 across from an area there that's going to be

1 EPA - 6/23/03 - South Plainfield, NJ
2 resampled. Now, when I bought my property, I had
3 topsoil put on it. Is that going to show up when
4 you go through the testing?

5 MR. PRINCE: We'll figure out
6 where the topsoil is and sample below it.

7 MR. MANNINO: We've gone in some
8 other properties because we brought in new, clean
9 fill for a regrading or whatever. Before we
10 actually do the sampling on your property, we'll
11 talk to you. If you tell us that you brought in
12 clean material, we will try to target that area
13 where the historical soil is and sample that
14 area, but we would have to talk to you first and
15 with your cooperation, we'll be able to target
16 certain areas.

17 Q I did most of my property with
18 topsoil.

19 A We can work around that.

20 Q I think they took the samples in
21 front, originally, and I think they came back and
22 said there wasn't any problem.

23 A Before we do any additional
24 sampling, we could discuss the work that you did
25 on your property and work around that.

1 EPA - 6/23/03 - South Plainfield, NJ

2 QUESTION BY ROBERT BARNARD:

3 Q I want to ask you the question,
4 I purchased my house in 2000. I know there was
5 testing in '97. There was, I guess, an average
6 of 0.61 on my property. How contaminated am I,
7 and my son is 14 and running around the property
8 if there are PCBs there? I have a garden there,
9 I ate tomatoes out of it, I mowed the lawn a
10 thousand times. How much am I contaminated and
11 my son running around the property?

12 A As we said, DEP has set a
13 national policy on a cleanup criteria that
14 protects the environment of 1 part per million,
15 so any number below that, EPA is saying is safe.

16 Q And 0.49 is a state standard?

17 A It's a state standard and they
18 use different assumptions coming up with that.
19 It's a risk-based number and we have our risk
20 assessor here, Marion Olson, who can talk a
21 little bit more about the cleanup criteria.

22 MS. OLSON: I think we need to
23 clarify that this number, the 1 ppm, is based on
24 the assumption of a young child between the ages
25 of zero and six being exposed 350 days a year for

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2 six years, so we're building into and also
3 building in the fact that young children are
4 known to do more picking-up activity and with
5 young children, everything goes into the mouth.
6 We built that in in terms of the amount of soil
7 that's ingested by that child, so that's built
8 into it. We also looked at other health effects
9 as well, and again, 1 ppm is protective looking
10 at 30 years of exposure, 6 years as a child, 24
11 years as an adult, 350 days per year for that
12 whole period, so we built in all of that in terms
13 of frequency and the amount of PCBs that would be
14 ingested.

15 Q Is that the only way to get them
16 in your body is to eat them; can you touch them
17 and inhale them?

18 A Yes. The number also looked at
19 dermal exposure, so if you get it on your hands,
20 there's a potential for it to be absorbed into
21 the skin as well, and volatilization is not a
22 problem.

23 MR. MANNINO: Before we go to
24 the next question, to answer your question
25 regarding the average concentrations at the

1 EPA - 6/23/03 - South Plainfield, NJ
2 Roosevelt School, the average PCB concentrations
3 were 0.057 for PCBs. The maximum concentration
4 detected of the samples collected was 0.26 parts
5 per million and the minimum was 0.01 parts per
6 million, but the average of the whole property
7 was 0.057.

8 Q What was the highest?

9 A 0.26.

10

11 QUESTION BY STEPHANIE DeMICO:

12 Q Our property is one of the
13 properties that had been reported as 0.4 parts
14 per million and we had a garden and we've been
15 eating from it for the past ten years. I also
16 have a dog that goes in the backyard and brings
17 the dirt in the house, so how safe is that 0.4
18 parts mer million?

19

20 ANSWER BY MR. MANNINO:

21 A I'd like to say, first, there
22 was one sample point in the rear of the property
23 that had a concentration of 44 parts per million,
24 and when you look at the samples surrounding
25 that, they were below -- I believe almost all of

1 EPA - 6/23/03 - South Plainfield, NJ
2 them, with the exception of one, were below the
3 one part per million number.

4 MS. OLSON: Exactly what we look
5 at when we do our analysis is that someone has
6 random access to all the different parts of the
7 site, and we incorporate that into our
8 information as to the average concentration
9 that's found. We actually use the upper
10 confidence level on the mean. It's just a
11 statistical term to make sure it would be even
12 more protected. I think this property is being
13 evaluated for remedial action at this point. We
14 don't see an immediate threat, but there will be
15 action being taken.

16 Q What do you mean by "immediate"?

17 A Meaning that PCBs are known to
18 cause effects over long periods of time. We
19 don't see effects right away. It would take a
20 very long period of time. That's why we build in
21 those assumptions as part of our assessment.

22 Q Five years, ten years?

23 A Again, we're looking at longer
24 periods of time. We're also not looking at your
25 being in that one area for that whole time. You

1 EPA - 6/23/03 - South Plainfield, NJ
2 can go to other parts of the property where your
3 levels are way below 1 ppm, but again, we are
4 going to be looking at further remedial action at
5 that property.

6 Q Just one more question. What
7 were the levels on Arlington Avenue where that
8 whole area is going to have additional sampling?

9 MR. MANNINO: Mostly on the
10 properties on that block that you're describing
11 we only collected the curbside right-of-way, and
12 on that block, there's quite a few exceedances of
13 the State's 0.49 criteria and our 1.0 criteria,
14 so we're calling for more extensive sampling of
15 the entire block because there was a pattern
16 there of higher exceedances of that 0.49 number
17 than any other area that we were sampling on the
18 curbside right-of-ways.

19 Q Were they higher than where our
20 property is?

21 A No.

22 MR. PRINCE: Most of these
23 samples are in the 1 to 5 ppm range, relatively
24 low.

25 MR. MANNINO: Take that range

1 EPA - 6/23/03 - South Plainfield, NJ
2 down a little bit. It was between 1 and 2 parts
3 per million in the curbside right-of-ways.

4 Q They didn't even test our
5 garden, and we've been eating out of that for ten
6 years.

7 MR. MANNINO: What we typically
8 found on that block, there's one sample that's 45
9 parts per million on your property. That was one
10 of the highest concentrations of PCBs that was
11 found in that whole group of 800 samples that we
12 conducted. I think there's only one or two other
13 higher concentrations on property that was
14 directly adjacent to the Industrial Park, so that
15 44 parts per million is not representative based
16 on the sampling we did on your whole entire
17 block, but we did collect between 18 and 20
18 samples on your property and there were only, I
19 think, two or three that exceeded --

20 Q I think it was 9 --

21 A 2.1 on the curb and then there
22 was maybe another one in the rear of property.

23 Q 1.2.?

24 A Correct, and then the rest of
25 them were well below our cleanup criteria, so it

1 EPA - 6/23/03 - South Plainfield, NJ
2 is an area we are going to address; however,
3 based on what we saw in the data, that 44 parts
4 per million is not representative of what's on
5 your property or on some of the surrounding
6 properties.

7

8 QUESTION BY MR. HOGAN:

9 Q Can you tell me a hundred feet
10 downstream of the dump about the water samples?

11 A We collected surface water
12 samples and we collected sediment samples from
13 the Bound Brook corridor. I don't have that data
14 on me. If you want, afterwards, I can locate
15 that and let you know that, but to answer your
16 question, yes, there are PCBs in that Bound Brook
17 corridor a hundred feet.

18 Q The dump keeps filtering it out.
19 That dump is 13 feet deep. I know it, and they
20 used to burn the debris and that's what
21 contaminated all the area with the smoke. The
22 smoke contained PCBs and it went all over the
23 place.

24 ANSWER BY MR. MANNINO:

25 A If you want, we can talk about

1 EPA - 6/23/03 - South Plainfield, NJ
2 it a little bit more after the meeting.

3 Q You're going to have another
4 meeting before you proceed, right?

5 A Yes, we are, but I don't want to
6 you to have to wait until our next meeting to
7 have your questions answered. I would love to
8 answer everyone's questions tonight, but it's
9 starting to get late and I know people want to
10 get home and some people may or may not have an
11 interest in the Industrial Park, so let's try to
12 stay focused on the residential properties.

13
14 QUESTION BY MR. LARRY RANDOLPH:

15 Q Larry Randolph, South Plainfield
16 Environmental Commission. On the curbside
17 right-of-way sampling, what methodology is that;
18 are you sampling the gutters or the middle of the
19 road or the property adjacent to the curbs?

20 ANSWER BY MR. MANNINO:

21 A Basically, what we're looking at
22 was a couple of feet from the curb where,
23 typically, there would be a sidewalk, but most of
24 those properties don't have sidewalks, so what we
25 were doing was in the sodded areas, we were

1 EPA - 6/23/03 - South Plainfield, NJ
2 lifting the sod up and collecting a sample of
3 soil from directly underneath the sod a couple of
4 feet from the curb, and we followed that uniform
5 process on all of the right-of-ways that we
6 sampled.

7 Q Are you looking in the catch
8 basins?

9 A We didn't collect any samples
10 from any sediments on the catch basins from the
11 right-of-ways. That is something that I guess we
12 could look at in the next design phase, but you
13 have to keep in mind -- actually, I am mistaken.
14 There was some limited sampling on catch basins
15 on Hamilton Boulevard because of work of a
16 utility company who was doing it and they were
17 collecting samples, and based on that sampling
18 event, there was no PCBs found in the surface
19 water runoff coming from the street; but keep in
20 mind, most of these properties, residential
21 properties, are vegetated. Most people have sod
22 on their lawns, on their properties. The PCBs
23 are not at the surface on that sod. They are at
24 the soils beneath it, so for the soils to
25 percolate up through the ground above this soil,

1 EPA - 6/23/03 - South Plainfield, NJ
2 above the sod, and then to run off on the street,
3 that's not something that you see commonly on a
4 daily basis occurring on a residential property.

5 But to answer your question,
6 there was one sampling event, and we did not find
7 a problem. Did we do it on all the blocks? No.

8 Q Is there any plans to do it?

9 MR. PRINCE: We can look into
10 it. It might make sense.

11 Q Second question, the Borough has
12 a street-sweeping program. Should we be doing
13 anything different in this area?

14 A No.

15
16 QUESTION BY ALICIA CIACUPO:

17 Q Are there any other contaminants
18 that we should be concerned about besides PCBs,
19 such as solvents?

20 ANSWER BY MR. MANNINO:

21 A No. The initial sampling we did
22 in 1997, we did a broad sweep to see what the
23 problem was, was it just PCBs. Based on the
24 initial sampling, we saw it was only a
25 PCB-related problem of the residential

1 EPA - 6/23/03 - South Plainfield, NJ
2 properties.

3 QUESTION BY MR. BOB SPIEGEL:

4 Q The homes that we know are
5 impacted that are going to require cleanup, do
6 you think it would be prudent to put up some type
7 of snow fencing or something around the areas
8 that you know need to be remediated to keep
9 people off of them until such time as they are
10 remediated?

11 ANSWER BY MR. MANNINO:

12 A No. There's no reason to
13 restrict access on any of the properties that we
14 know require a cleanup. Keep in mind, yes,
15 people do have gardens, they are in contact with
16 some of the soil as we already discussed, but
17 most of the properties have some form of sod or
18 vegetation on them, so in most cases, there isn't
19 a direct contact; but in those cases where there
20 is the potential for exposure in the gardens and
21 in some of the flower beds, based on the
22 concentrations, we looked at that and there was
23 no need to restrict any access at this time.
24 People can continue using their properties.

25 Q Just to bring back a point that

1 EPA - 6/23/03 - South Plainfield, NJ

2 I originated and a couple of people agreed, how
3 much cost would it be for EPA to install some
4 monitoring along the fence line to see if there
5 was, indeed, contaminants leaving the site,
6 because we do differ about what you consider to
7 be a vegetative cover.

8 I've been to the site many times
9 and yes, you're right, there has been a lot of
10 improvement in the site. The main parking lot is
11 paved. There is another area, though, off to the
12 side where they are using trucks still in and out
13 that's not paved that generates dust. There's
14 like moving trucks or some type of trucks in
15 there. If you go on the back of the property,
16 there is an area that's not paved that's still
17 being used and the grassy area in the back is not
18 -- well, the whole back of the property, there's
19 still a lot of exposed areas, so can EPA install
20 one or two dust monitors there just to say, "Gee
21 whiz, do we know if there's anything coming off
22 the site?"

23 We have no data, but if you were
24 to go ahead and collect a couple of weeks or
25 months of data, you'd know if there was any

1 EPA - 6/23/03 - South Plainfield, NJ
2 exposure or any continual release of contaminants
3 from the site.

4 A I don't think I can commit to do
5 an air monitoring right now, but when we go back
6 over the next couple of days, we can look at
7 doing this. You raise a point of what would it
8 cost. We are not here taking some actions and
9 not taking other actions because of what would it
10 cost the agency to do the additional air
11 monitoring. We're going to do the work that's
12 necessary to insure that everything we do is
13 being protective of the residents and of the
14 environment; so it's not an issue of cost on why
15 we haven't done the air monitoring. I guess over
16 the next couple of days, we can make a decision.

17 I know I can't commit to say
18 that we are going to have air-monitoring stations
19 along the fence line tomorrow, but what I can
20 commit to you is you spoke about areas that
21 aren't paved where trucks are using. I've been
22 at that site quite a few times. I'd love to meet
23 you at the Industrial Park at any time and show
24 me these areas because --

25 Q What are you doing tomorrow?

1 EPA - 6/23/03 - South Plainfield, NJ

2 A I'll meet you there tomorrow
3 afternoon.

4 Q Okay, that's fine. The last
5 question, the groundwater plume that's under the
6 site, we know that it's bad. We know that the
7 solvents are pushing the PCBs into the
8 groundwater at unheard-of levels. Do we know
9 that the plume is not extending into the
10 residential area? You said that some of the

11 areas have wells that were closed previously by
12 the DEPE. Do we know that there's not an indoor
13 air-quality problem as a result of a groundwater
14 plume coming from this site in the residential
15 areas?

16 ANSWER BY MR. MANNINO:

17 A That isn't a question for
18 Operable Unit 3, but if no one else has any other
19 questions on the residential plan that we just
20 discussed here, I guess we can move into other
21 areas.

22 Q Will it affect the homes,
23 though? Will it affect people's houses? It may
24 not be their front lawns, but it's their
25 basements.

1 EPA - 6/23/03 - South Plainfield, NJ

2 A I understand that, and we are
3 going to be doing additional air monitoring at
4 the residential properties for vapor intrusion.

5 Q So you are going to go into
6 people's basements and check for --

7 A We plan as part of the
8 investigation for Operable Unit 3, which deals
9 with the groundwater and the Bound Brook
10 corridor, to see as a result of the groundwater
11 and the trichlorethylene that we have in the
12 groundwater, whether or not they're volatilized
13 and impacting residents, as you say, with the
14 vapor intrusion. We are going to be doing that
15 sampling.

16 Q When is that going to happen?

17 A That's going to begin this
18 summer with the groundwater sampling, the Bound
19 Brook sampling and Operable Unit 3.

20
21 QUESTION BY BILL SHULTZ:

22 Q Regarding Operable Unit 3,
23 you've got some PCB contamination into the Bound
24 Brook. I have a problem. I've actually been
25 contacted by people who are kayaking and canoeing

1 EPA - 6/23/03 - South Plainfield, NJ
2 in the Bound Brook. You've got contamination
3 there. Until you come up with a definitive plan,
4 can we at least some get some signage maybe on
5 the streets crossing the Brook that there is
6 contamination in the Brook and they should -- I
7 mean aside from the fishing, the fish warnings
8 are throughout the state and that's another curse
9 that we have to deal with, but everybody's getting
10 so used to seeing the fish warning signs all over
11 the place, they may not necessarily realize we've
12 got some contamination in the waterway, and other
13 recreational users have to be addressed.

14 We get further downstream, the
15 place is just covered with ATV tracks, and the
16 floodplain itself has different characteristics
17 in that because the trees have fallen over and
18 they've created craters and such, you have
19 hydrologists that are looking at the floodplain
20 and realizing that there are places that are
21 absolutely clear, and the flushing point further
22 downstream, especially like where the stream
23 comes up into New Market Lake, that's where
24 something things will settle. I'm not exactly
25 familiar with the characteristics of the PCBs in

1 EPA - 6/23/03 - South Plainfield, NJ
2 the stream corridor, but I'm hoping that you're
3 looking down as far as the lake.

4 ANSWER BY MR. MANNINO:

5 A We sampled just beyond New
6 Market Pond as part of this ongoing
7 investigation, and regarding putting up signs
8 that discuss restrictions for the use of the
9 waterways other than fishing, I would have to go
10 back and double-check, but I don't believe the
11 data supports the need for any type restrictions
12 like that.

13 Before the implementation of the
14 site-stabilization measures that were implemented
15 at the Industrial Park in 1997, the surface water
16 samples revealed elevated levels of contamination
17 that were coming off of the Industrial Park.
18 Measures were implemented in 1997 to restrict and
19 prevent that continued migration. Additional
20 samples were conducted after that as part of our
21 ongoing investigation of the Bound Brook
22 corridor, surface water samples and additional
23 sediment samples, and the quality of the surface
24 water changed after the implementation of those
25 measures.

847590196

1 EPA - 6/23/03 - South Plainfield, NJ

2 So to answer your question, I
3 can work with the Borough in South Plainfield if
4 they want additional signs posted for the Bound
5 Brook corridor for the fish and hunting advisory.
6 As of now, there are no advisories posted for
7 contact with that pond, the water body.

8 Q Two things. There are very few
9 of the fish consumption advisories left. They've
10 all been torn down. Two, some things about
11 kayaking in the Bound Brook. There are numerous
12 strainers where trees have fallen into the
13 stream. This is one of the few streams where you
14 spend just as much time pulling your kayak around
15 the fallen trees, but this necessitates that if
16 you're going to canoe or kayak in the Bound
17 Brook, you're going to have physical contact with
18 the sediment. You're going to have to get off,
19 you're going to have to step in the mud and
20 you're going to have to walk on the muddy banks
21 as opposed to other streams where you get in the
22 water and you're gone and all you have to worry
23 about is waterborne contaminants. Here, people
24 are going to be exposed to the sediment
25 contaminants, so keep that in mind.

847590197

1 EPA - 6/23/03 - South Plainfield, NJ

2 ANSWER BY MR. MANNINO:

3 Q I'll answer that question real
4 quickly and then we'll take a break, but based on
5 the evaluation of the data, the recreational user
6 is not impacted by occasional contact with the
7 sediment of the Bound Brook corridor, and if
8 you'd like, afterwards, you can give me your fax
9 number and I can fax you the report on that, but
10 right now, if there's no other questions --

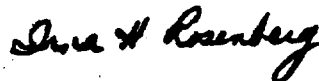
11 MR. PRINCE: Let me put it this
12 way. Our intent at this point was that our
13 stenographer has been working very, very hard.
14 We've been collecting oral comment on our
15 proposed remedy that we are required to collect,
16 and if there are any other oral comments that you
17 would like to have on the record, this would be
18 an opportunity to do it; but we would offer to
19 stay after she stops and rests her fingers and we
20 would offer to stay and talk about either OUI,
21 Operable Unit 1 or other parts of the plan, so if
22 there are any other comments of that nature,
23 thank you very much.

24 (Meeting adjourned.)
25

847590198

C E R T I F I C A T E

I, IRNA H. ROSENBERG, a Notary Public and
Certified Shorthand Reporter of the State of New
Jersey, do hereby certify that that the foregoing
is a true and accurate transcript of the
testimony as taken stenographically by and before
me at the time, place and on the date
hereinbefore set forth, to the best of my
ability.



IRNA H. ROSENBERG
Notary Public of the
State of New Jersey

My Commission Expires 5/26/06

847590199

ATTACHMENT D
WRITTEN COMMENTS

847590200

ENVIRON

July 16, 2002

Via e-mail

Mr. Peter Mannino
Project Manager
USEPA, Region II
290 Broadway, 19th Floor
New York, NY 10007-1866

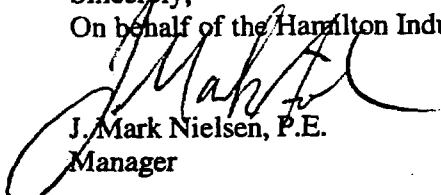
Re: Cornell-Dubilier Electronics Superfund Site/Hamilton Industrial Park Site
OU 1 Proposed Plan

Dear Mr. Mannino:

On behalf of the Hamilton Industrial Park Group (HIPG), comprised of Cornell Dubilier Electronics, Inc. and Dana Corporation, I am providing these comments to EPA's June 2003 Proposed Plan for Operable Unit 1 (OU1). First, I am resubmitting a summary of the Hamilton Industrial Park Group's August 28, 2002 comments on the OU 1 RI/FS reports for your consideration. In general, HIPG does not believe that the concerns identified in the August 28, 2002 letter regarding the data evaluation and remedy scoping presented in the RI/FS were addressed by the Proposed Plan. Second, according to the Proposed Plan, USEPA has changed the scope of work from the one defined in the FS, including increasing the number of properties requiring additional sampling or further evaluation. Based on our recent discussions, I understand that this change was prompted by USEPA's use of a NJDEP cleanup criterion of 0.49 mg/kg rather than USEPA's cleanup criterion of 1 mg/kg. Because the NJDEP soil cleanup criterion has not been promulgated, and thus is not an ARAR, and given that USEPA does have a regulatory basis for selecting a cleanup criterion of 1 mg/kg, the HIPG strongly opposes basing the scope of work defined in the Proposed Plan on NJDEP's cleanup criterion. In fact, the NJDEP's publication of this criterion specifically states that this criterion "shall not be assumed to . . . represent the Department's opinion that a site requires remediation". Furthermore, the need for remediation should be based on site-specific risk analysis rather than a non-promulgated generic cleanup criterion.

Please call me at 609-243-9859 if you wish to discuss these comments.

Sincerely,
On behalf of the Hamilton Industrial Park Group



J. Mark Nielsen, P.E.
Manager

jmn:02-5840f3\WRAP Comments(7-16-02).doc

Enclosure

cc: K. Stollar, Esq., Foley Hoag
M. Last, Esq., Rackemann, Sawyer & Brewster
M. Scott, ENVIRON

847590201

ENVIRON

August 28, 2002

Federal Express

Mr. Peter Mannino
Project Manager
USEPA, Region II
290 Broadway, 19th Floor
New York, NY 10007-1866

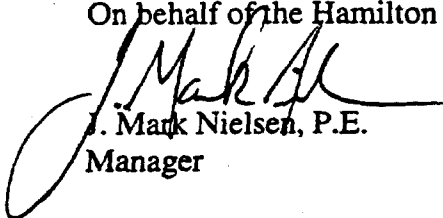
Re: Cornell-Dubilier Electronics Superfund Site/Hamilton Industrial Park Site
OU 1 Remedial Investigation and Feasibility Study Reports

Dear Mr. Mannino:

Based on our recent discussions, I understand that USEPA is preparing to publish a preliminary remedial action plan (PRAP) for Operable Unit 1 (Off-site Soils) associated with the Cornell-Dubilier Electronics Superfund Site based on the findings of the remedial investigation and feasibility study (RI/FS) reported in August 2001 by Foster Wheeler Environmental Corporation. In anticipation of the release of the PRAP for Operable Unit 1, I have enclosed a summary of the Hamilton Industrial Park Group's comments on the RI/FS reports for your consideration.

Please call me at (609) 243-9859 if you should have any questions regarding the enclosed comments.

Sincerely,
On behalf of the Hamilton Industrial Park Group



J. Mark Nielsen, P.E.
Manager

jmn:02-5840f3\Transmittal(8--28-02).doc

Enclosure

cc: M. Conyngham, Esq., Foley Hoag
M. Last, Esq., Rackemann, Sawyer & Brewster
M. Scott, ENVIRON

847590202

COMMENTS ON THE RI/FS FOR OU-1: OFF-SITE SOILS CDE SUPERFUND SITE, SOUTH PLAINFIELD, NEW JERSEY

Remedial Investigation Report

Reference: *Final Remedial Investigation Report for Operable Unit 1 (OU-1), Off-Site Soils for the Cornell-Dubilier Electronics Superfund Site, South Plainfield, Middlesex County, New Jersey* (Foster Wheeler Environmental Corporation, August 2001).

Section 1.2.2

- Insufficient information is provided regarding the use of the Hamilton Industrial Park after 1962 to assess other sources of contamination or site activities that could have contributed to potential transport of contamination to off-site locations. In particular, a truck driving school operated on the Hamilton Industrial Park site up until the mid-1990s and an auto junkyard was located between this property and Spicer Avenue during the early 1960s. Post-1962 aerial photographs suggest continued disturbance of the ground surface in the undeveloped portion of the Hamilton Industrial Park site (e.g., March 1969).

Section 1.2.3

- Insufficient information is provided regarding the history of the residential property development. In particular, sampling and removal action activities uncovered buried debris – how did this material come to be present on these properties? A review of aerial photographs suggests that some of the homes in this area are not the original structures on these properties – when were the current homes constructed?

Section 2.2

- The OU-1 RI WorkPlan (Foster Wheeler 2000) stated that 36 properties were targeted for sampling during the RI.
 - How were these initial 36 properties selected for sampling (e.g., previous sampling, adjacent to other contaminated properties, etc)?
 - What was the basis for reducing the number of properties sampled to 20 as reported in the RI Report?
 - Five of the 20 properties sampled as part of the RI were not part of the original 36 properties selected in the WorkPlan. What was the basis for changing the actual properties to be sampled?
- What was the overall sampling strategy for selecting sampling locations at each property, including the locations for collecting the deep soil samples? (For example, on Property 19 all deep samples were concentrated in one area and on six properties the collection of deep samples varied from the general approach of collecting one deep sample for every five shallow samples).

Section 4.0

- The RI suggests that “nearby areas were suspected to have the potential to be contaminated with PCBs, via airborne entrainment of contaminated particulates (i.e., fugitive dust emissions) and/or transport by vehicles.” However, deep soil contamination (e.g., below 1-foot) and evidence of fill material was also observed on sampled properties, which suggests that there are other/additional mechanisms by which contamination may be present on these properties (see Section 3.4.2). Were additional mechanisms for the presence of PCBs on these properties also considered in developing the potential scope of the investigation? For example, the 1969 aerial photograph suggests disturbance of the ground surface in the undeveloped portion of the Hamilton Industrial Park site.

Section 4.1

- The RI Report indicates that an additional property was to be remediated under the removal program by the end of 2001. Was this work completed?

Section 4.4.17

- Why was Property 17, which had been characterized as part of the Tier II removal action program, resampled as part of the RI? Why was this sampling targeted to a specific 2-inch depth interval?

Section 4.5

- Results for Tier II Property DD should be noted as reflecting results for a sample having elevated detection limits, and the 95% UCL for this property excluding this data point should also be presented. These results were discussed in Section 2.3.7 of the *Tier II Residential Property Removal Action Final Report, South Plainfield, New Jersey* (ENVIRON, January 2000). According to USEPA’s Risk Assessment Guidance - Part A, elevated detection limits should be censored if these values would cause the calculated exposure concentration to exceed the maximum detected concentration.

Section 5.2.1

- This section refers to “improper” disposal practices. The nature of the disposal activities should be discussed in terms of the “state of the practice” at the time these activities may have occurred (i.e., what was the required or common industry practice at the time these activities reportedly occurred?).

Section 6.3.1

- The RI Report acknowledges that current land uses will likely continue into the future. However, it is then assumed for the human health risk assessment that all properties could be used for residential purposes. This contrarily assumes that current uses would change in the future. This assumption should be confirmed on a property-by-property basis before proceeding with remedial decision making. **For example, both Property 1 and Property 18 are currently commercial-use properties, and given the Borough of South Plainfield’s formally adopted commercial redevelopment plan for this area, it would appear extremely unlikely, as well as**

inconsistent with the local redevelopment and land use planning, that these properties will be converted to residential use in the future. (A copy of the *Redevelopment Plan for the Designated Redevelopment Area in the Vicinity of the Hamilton Boulevard Industrial Site*["Redevelopment Plan"; THP, April 2002] and the Borough of South Plainfield's Ordinance #1597 approving this Redevelopment Plan are provided as an attachment to these comments.)

If it is assumed that the current land uses will continue into the future, then the risks to indoor workers at the commercial properties would be lower than those calculated under a residential land use scenario, and as a result, Properties 1 and 18 would likely not be identified for remediation (the RME risk estimates for an adult resident only marginally exceeded an HQ of 1.0 for Property 18, and were within the acceptable cancer risk range for both properties). For example, using standard defaults (Supplemental Soil Screening Guidance; USEPA draft 2001), the risks to indoor workers at Properties 1 and 18 would be:

Property 1:	HQ = 0.06	CRL = 8×10^{-7}
Property 18:	HQ = 1	CRL = 1×10^{-5}

This indicates that, if current and reasonably likely future uses were considered in the risk assessment (given the Borough of South Plainfield's promulgated redevelopment plans for this area), remediation of Properties 1 and 18 would not be warranted.

Feasibility Study

Reference: *Final Feasibility Study Report for Operable Unit 1 (OU-1), Off-Site Soils for the Cornell-Dubilier Electronics Superfund Site, South Plainfield, Middlesex County, New Jersey* (Foster Wheeler Environmental Corporation, August 2001).

Section 1.2.2.1

- Insufficient information is provided regarding the use of the Hamilton Industrial Park after 1962 to assess other sources of contamination or site activities that could have contributed to potential transport of contamination to off-site locations. In particular, a truck driving school operated on the Hamilton Industrial Park site up until the mid-1990s and an auto junkyard was located between this property and Spicer Avenue during the early 1960s. Post-1962 aerial photographs suggest disturbance of the ground surface in the undeveloped portion of the Hamilton Industrial Park site (e.g., March 1969).

Section 1.2.2.2

- Insufficient information is provided regarding the history of the residential property development. In particular, sampling and removal action activities uncovered buried debris – how did this material come to be present on these properties? A review of aerial photographs suggests that some of the homes in this area are not the original structures on these properties – when were the current homes constructed?

Section 1.2.3.2

- Three of the 19 properties sampled during the RI were determined to need remediation based the findings of baseline risk assessment. Additionally, 16 Right-of-Way (ROW) samples collected during the RI and Tier III removal action investigation (4 property ROWs sampled in May 1998) exhibiting PCB concentrations above the EPA Soil Screening Level (SSL) of 1 mg/kg were identified. EPA assumed an additional 25 properties will need to be sampled based on a location adjacent to ROWs with elevated PCB levels, and/or along major thoroughfares exiting the Site. It is unclear where these 25 properties are located and specifically how these properties were selected. The criteria for identifying these properties are fundamental to the remedy analysis and selection, and will ultimately be necessary for moving forward for remedy implementation.

Section 1.2.4

- The first paragraph of this section suggests that the principal transport mechanism that resulted in PCB contamination on off-site properties is via contaminated particulates (i.e., fugitive dust emissions) and/or transport by vehicles. However, deep soil contamination (e.g., below 1-foot) and evidence of fill material was also observed on sampled properties, which suggests that there are other/additional mechanisms by which contamination may be present on these properties (see Section 3.4.2). For example, the 1969 aerial photograph suggests disturbance of the ground surface in the undeveloped portion of the Hamilton Industrial Park site.

Section 1.2.5

- The fourth paragraph summarizes the results of the human health risk assessment for Properties 1 and 18 based on an assumption of residential use of these properties. The RI Report acknowledges that current land uses will likely continue into the future. However, it is assumed for the human health risk assessment that all properties could be used for residential purposes. This contrarily assumes that current uses would change in the future. This assumption should be confirmed on a property-by-property basis before proceeding with remedial decision making. For example, both Property 1 and Property 18 are currently commercial-use properties, and given the Borough of South Plainfield's formally adopted commercial redevelopment plan for this area, it would appear extremely unlikely, as well as inconsistent with local redevelopment and land use planning, that these properties will be converted for residential in the future. If it is assumed that the current land uses will continue into the future, then the risks to indoor workers at the commercial properties would be lower than those calculated under a residential land use scenario, and as a result, Properties 1 and 18 would likely not be identified for remediation.

Section 2.4.3.5

- The first two subsections discuss possible management of excavated soils as RCRA hazardous. Soils containing PCBs as the only contaminant are not RCRA regulated hazardous wastes.
 - Is there any evidence that the soil to be remediated will be characteristically hazardous under RCRA?
 - Why are RCRA landfill requirements rather than TSCA landfill requirements discussed in this section?
 - How would PCB concentrations be used to determine the need for a RCRA Subtitle C landfill versus a TSCA landfill? A better comparison would be to assess the need for a Subtitle D landfill versus a TSCA landfill based on PCB concentrations.
- The second two subsections discuss the possible management of excavated soils as non-hazardous/non-TSCA regulated. The assessment of these management options fails to consider the placement of non-hazardous/non-TSCA regulated soils on the Hamilton Industrial Park site. While this management approach was considered in terms of construction of a RCRA/TSCA landfill cell on the Hamilton Industrial Park Site (see first subsection), it is not considered as an option under the subsection entitled "On-site Non-Hazardous/Non-TSCA Disposal." Given the planned redevelopment of the Hamilton Industrial Park site, these soils could be integrated into the grading associated with an on-site remedial option.

Section 3.2.2 and 3.2.3

- Alternatives 2 and 3 incorporate the cleaning of the interiors of homes based on pre-design interior dust sampling.
 - What are the Remedial Action Objectives and PRGs for interior dust?

- What are the remedial technologies considered for addressing the interiors of homes? What remedial technologies were screened to determine that these are effective technologies?

Section 4.2

- What was the basis for assuming that 12 of the additional 25 properties (48%) to be investigated during the pre-design studies would need some remediation when only 3 of the 19, or 16%, sampled during RI were identified for remediation?
- What is the basis for assuming that 7 additional properties would need interior dust cleaning?
 - Was sampling of interiors performed during the RI?
 - What type of sampling is proposed for the pre-design studies?
 - What concentration will trigger the need for interior cleaning, and how will the effectiveness of the cleaning be determined?
- Were the implementation risks associated with the transport of excavated soils along local roads quantified?
- Why was an excavation depth of 2-feet assumed for any potential property excavations (i.e., those properties that are to be sampled during the pre-design studies)? As reported in the *Tier I Residential Property Removal Action Final Report* (ENVIRON, July 1999) and *Tier II Residential Property Removal Action Final Report* (ENVIRON, January 2000), most excavations conducted during the removal action program were 1-foot in depth or less.
- The following assumptions appear to be inconsistent with the general approach presented in Appendix C.

Specific Excavation Area Comments:

- Area 1B: Sample RS01-04 is 1.2 mg/kg at 16-18", but the excavation is assumed to be a 1 foot depth (See Fig. C-1)
- Area 13A: only one of the two subsurface samples is greater than 1 mg/kg, yet the entire 756 sf area is assumed to be a 2 foot deep excavation (See Fig. C-2)
- Area 18A: only one of the two subsurface samples is greater than 1 mg/kg, yet the entire 6,616 sf area is assumed to be a 2 foot deep excavation (See Fig. C-3)
- Cost Estimation:
 - General:
 1. What is the basis for the cost to clean interiors of houses of \$20,000/home (See Table B-2 and B-3)?

August 28, 2002

S:\Nielsen\Hamilton\02-5840\F_3 OU1 Remediation Planning\COMMENTS ON THE RI_FS(8-28-02).doc

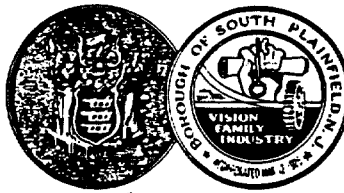
847590209

August 28, 2002

ATTACHMENT

Redevelopment Plan for Hamilton Boulevard Industrial Site

847590210



BOROUGH OF SOUTH PLAINFIELD

2480 Plainfield Avenue
South Plainfield, NJ 07080

AREA CODE 908

Mayor's Office - 226-7601
Administrator - 226-7602
Assessing - 226-7623
Building Dept. - 226-7640
Clerk - 226-7606
Emergency Mgmt. - 226-7718
Engineering - 226-7635
Environmental - 226-7621
Finance - 226-7615
Fire Official - 756-4761

AREA CODE 908

Health - 226-7630
Library - 754-7885
Municipal Court - 226-7651
Plan Bd/Bd. of Adj. - 226-7641
Police - 755-0700
Public Works - 755-2187
Recreation - 226-7713
Recycling - 226-7621
Social Services - 226-7625
Tax/Sewer - 226-7610

July 16, 2002

Mr. Anthony Valasquez
Hill Wallack, Attorneys At Law
202 Carnegie Center
Princeton, New Jersey 08543-5226

Dear Anthony:

Enclosed please find a certified copy of Ordinance #1597, approving the Redevelopment Plan for the Hamilton Boulevard Industrial Site.

If you have any questions, please contact me at (908)226-7606 from 8:00 AM to 4:00 PM, Monday to Friday.

Thank you.

Yours truly,

Vincent Buttiglieri
Municipal Clerk

847590211

ORDINANCE NO. 1597

AN ORDINANCE ADOPTING THE REDEVELOPMENT PLAN FOR THE DESIGNATED REDEVELOPMENT AREA IN THE VICINITY OF THE HAMILTON BOULEVARD INDUSTRIAL SITE.

WHEREAS, the Borough Council of the Borough of South Plainfield, by Resolution dated February 21, 2002, designated and declared that the area commonly known as the Hamilton Boulevard Industrial Site, is an area in need of redevelopment, as that term is recognized and utilized within the Local Redevelopment Law, N.J.S.A. 40A:12A-1 et seq., and

WHEREAS, the Borough Council caused to be prepared a proposed "Redevelopment Plan", as authorized pursuant to N.J.S.A. 40A:12A-7, and

WHEREAS, the Borough Council forwarded the proposed "Redevelopment Plan" to the Planning Board of the Borough of South Plainfield, pursuant to N.J.S.A. 40A:12A-7(e) for its review and report, and

WHEREAS, the Planning Board considered the "Redevelopment Plan" at its open, public meeting on June 11, 2002, and approved of the same, and reported favorably to the Borough Council with regard to the adoption of the "Redevelopment Plan".

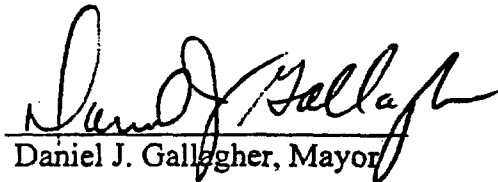
NOW , THEREFORE, BE IT ORDAINED by the Governing Body of the Borough of South Plainfield, County of Middlesex, State of New Jersey, as follows:

SECTION 1. The "Redevelopment Plan for the Designated Redevelopment Area in the Vicinity of the Hamilton Boulevard Industrial Site", annexed hereto in its entirety, is hereby adopted and shall be incorporated into the land use laws of the Borough of South Plainfield.


This Ordinance shall take effect after final passage and publication in accordance with the law.

STATEMENT

The purpose of this ordinance is to adopt the Redevelopment Plan for the Hamilton Boulevard industrial Site area, so as to guide the planning, development, redevelopment and rehabilitation of the Hamilton Boulevard Industrial Site area, pursuant to and in accordance with the Local Redevelopment and Housing Law, N.J.S.A. 40A:12A-1 et seq.


Daniel J. Gallagher, Mayor

ATTEST:


Vincent Buttiglieri,
Municipal Clerk

847590212

THP, Inc.

**The Redevelopment Plan
for the Designated
Redevelopment Area in the
Vicinity of the
Hamilton Boulevard Industrial Site**

**Borough of South Plainfield
Middlesex County, New Jersey**

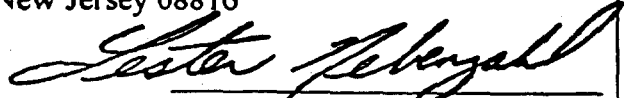
April, 2002

Prepared for:

**Borough of South Plainfield
2480 Plainfield Avenue
South Plainfield, New Jersey 07080**

Prepared by:

***THP, Inc.*
40 Brunswick Woods Drive
East Brunswick, New Jersey 08816**


Lester J. Nebenzahl, P.P., AICP

THP File No. 2001 02.110

847590213

Table of Contents

	<u>Page Number</u>
Introduction	1
The Redevelopment Plan	3
Implementation of the Plan	12

Exhibits

	<u>Page Number</u>
Exhibit 1 – Study Area	5
Exhibit 2 – Hamilton Boulevard Redevelopment Area Plan	7

Tables

	<u>Page Number</u>
Table 1 – Borough of South Plainfield Redevelopment Area	6

INTRODUCTION

The South Plainfield Borough Council adopted Resolution Number 01-116 on April 19, 2001, which designated certain lands in the vicinity of the Hamilton Boulevard and the Lehigh Valley Railroad as a "Redevelopment Area" pursuant to the Local Redevelopment and Housing Law (N.J.S.A. 40A: 12A-2 et seq.).

The tract designated as a "Redevelopment Area" is illustrated on the attached map entitled "Exhibit 1, Study Area", and includes 21 individual tax lots with a total land area of approximately 29.38 acres. Table 1 presents a listing of all lots within the "Redevelopment Area" including current ownership and approximate acreage for each parcel.

As set forth in the preliminary report adopted by the South Plainfield Borough Planning Board, dated June, 2001, the majority of the area in need of redevelopment is comprised of Lot 1 in Block 256. This 25.4 acre tract contains numerous old buildings, some of which date back to the very early 1900's. The buildings are utilized as rented industrial space for a variety of small businesses and the site is also used to store moving vans. The property was placed on the United States Environmental Protection Agency's

Superfund list in July, 1998 after approximately twelve years of soil, surface water and sediment testing. Large areas of the site were paved, a truck driving school was closed, the south and east sides of the lot were fenced and a drainage control system was installed in 1997 to limit movement of contaminants to the Bound Brook. Cornell-Dubilier Electric and the Dana Corporation, two former tenants and/or the former owner of the tract removed soil from the yards of thirteen dwellings in 1999 by agreement with the Environmental Protection Agency.

The remaining twenty lots comprise an area of 3.98 acres with six dwellings; one industrial use; six commercial facilities; the Borough police substation; five vacant parcels including a single Borough owned parcel; and, one semi-public use.

In the preliminary report, the Borough Planning Board noted that existing conditions within the designated area will continue to inhibit development of the individual parcels. These conditions include existing environmental problems, diverse ownership, and the overall condition of existing structures and varying land use activities within the area. As determined by the Planning Board, these conditions meet the criteria for designation of the parcels as a "redevelopment area" pursuant to N.J.S.A. 40A:12-1 et seq.

Accordingly, inclusion of those parcels within the redevelopment area will allow for a comprehensive Redevelopment Plan and productive improvements which will promote the public health, safety and general welfare.

Based upon the above noted existing conditions, the preliminary report recommended that the designated redevelopment area be planned and developed with mixed uses which will be valuable for contributing to and serving the community.

THE REDEVELOPMENT PLAN

The Redevelopment Plan presented on Exhibit 2 has been prepared in accordance with a "Conceptual Design Plan" prepared by Beacon Planning and Realty Advisors, L.L.C. in consultation with the South Plainfield Borough Governing Body. The Plan has been formulated to achieve the following goals and objectives:

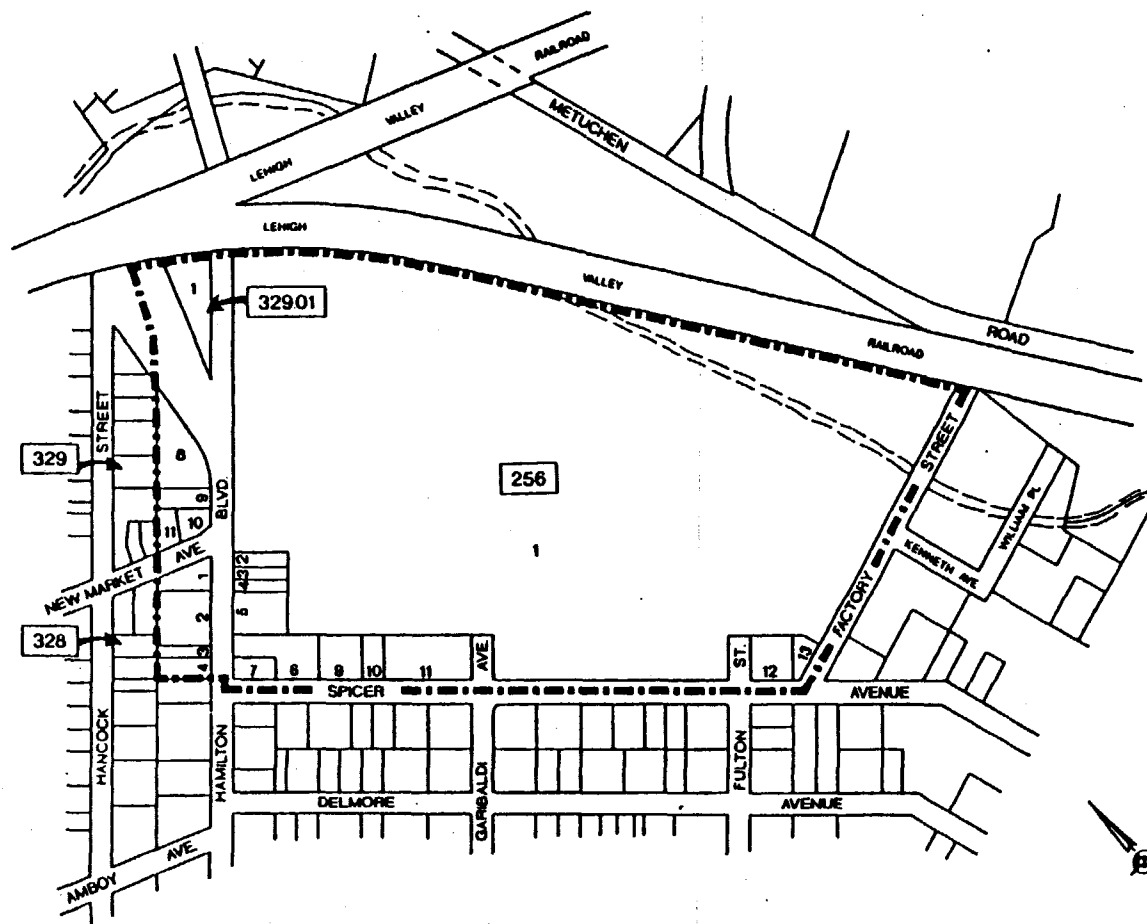
- The "Redevelopment Plan" should be compatible with the Borough's Master Plan.
- Environmentally sensitive lands should be preserved.
- Grade-separated pedestrian linkage to the Historic Downtown District located north of the Lehigh Valley Railroad should be provided.

- Provide municipal parking to meet the off-street parking needs of future retail development within the redevelopment area as well as for nearby community businesses.
- Provide safe and efficient access to all uses within the redevelopment area while minimizing adverse impacts to existing residents in the area.
- Provide adequately landscaped buffer areas to aesthetically complement the development and buffer existing residential dwellings in the surrounding area.
- Provide the opportunity to work and shop within the redevelopment area while maintaining compatibility with existing development in the area.
- The scope of development should not overwhelm existing and/or proposed infrastructure.

The "Hamilton Boulevard Redevelopment Area" is proposed to be developed with six land use categories, as follows:

- Retail/Commercial
- Mini-storage
- Office/Warehouse
- Public Use/Street Intersection Improvement
- Semi-Public (existing use)
- Buffer/Conservation

847590219



LEGEND:

- # - EXISTING TAX BLOCK NUMBER
- # - EXISTING TAX LOT NUMBER
- - STUDY AREA BOUNDARY

GRAPHIC SCALE (in feet)



EXHIBIT 1
STUDY AREA

THP, Inc.
East Brunswick, New Jersey

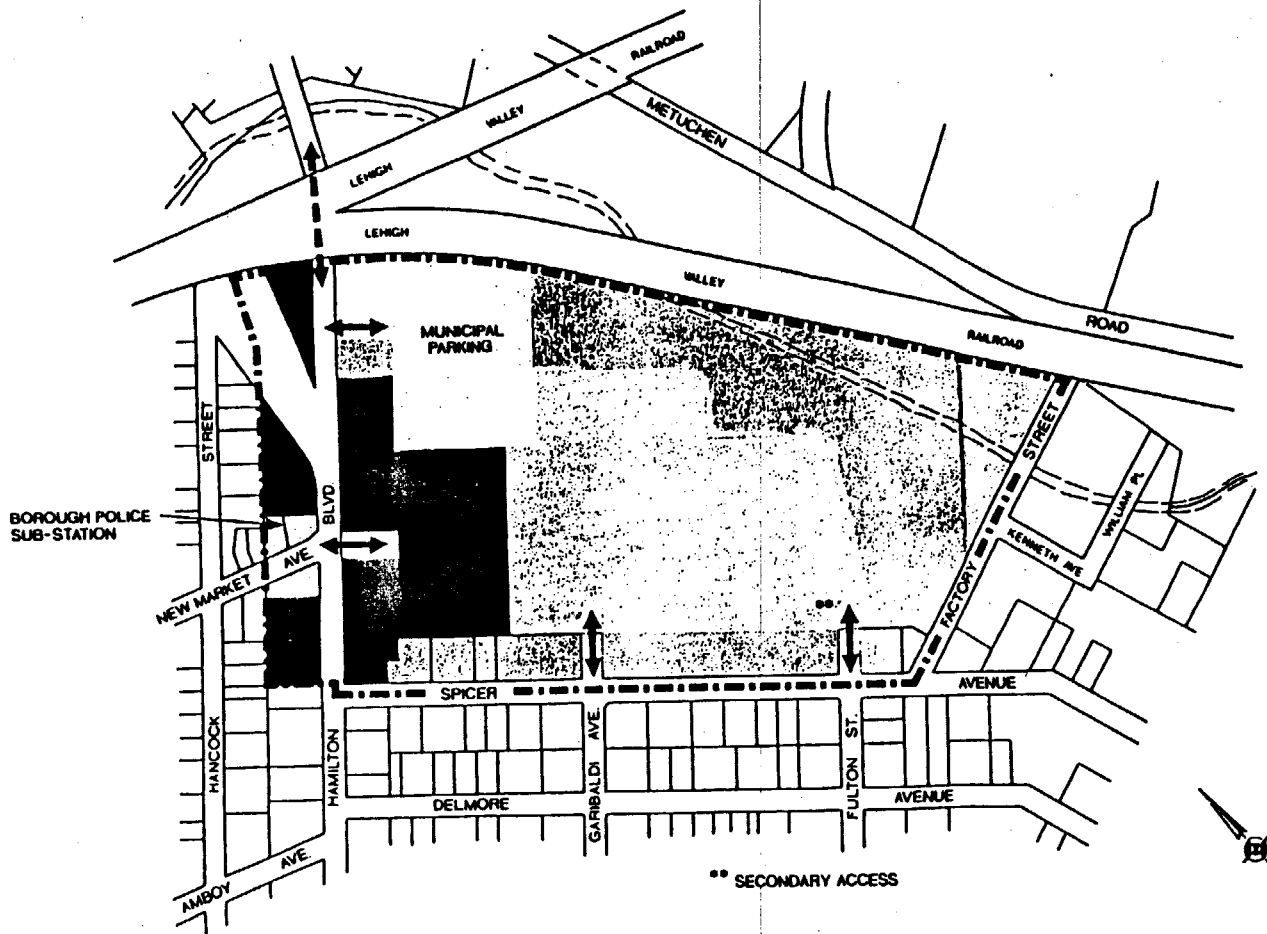
Table 1
Redevelopment Area
(Tax Lot Parcel Identification)

<u>Block</u>	<u>Lot(s)</u>	<u>Owner</u>	<u>Acreage (Approx.)</u>
256	1	DSC of Newark Corporation	25.4
256	2	Morris Schechter	0.08
256	3	Adam Schechter	0.08
256	4	Jaipersaud and Babita Sewdat	0.07
256	5	Harry and Stella Cisz	0.29
256	6 & 7	Saverd Joint Venture, L.L.C.	0.46
256	9	Eugene and Angelina Pesaniello	0.23
256	10	John and Eugene Pesaniello	0.11
256	11	Eugene M. Pesaniello	0.46
256	12	Frank Riccardi, Sr.	0.23
256	13	Borough of South Plainfield	0.10
328	1	Morris Schechter	0.15
328	2	Queen's Palace Restaurant, Inc.	0.36
328	3	Max C. and Jason J. Lee	0.07
328	4	Jason J. Lee	0.14
329	8	340 Hamilton Boulevard Associates	0.42
329	9	Anthony Pellegrino	0.14
329	10	Borough of South Plainfield	0.11
329	11	Anthony S., Jr. and Joann Zelek	0.10
329.01	1	Columbian Club/South Plainfield #6203, Inc.	0.38

Total Acreage (approx.) = 29.38

Source: South Plainfield 2001 Tax Assessors Book and Tax Maps.

847590220



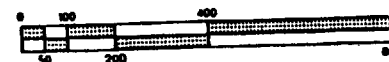
LEGEND

- RETAIL / COMMERCIAL
- MINI-STORAGE
- OFFICE / WAREHOUSE
- PUBLIC USE / STREET INTERSECTION IMPROVEMENT
- SEMI-PUBLIC
- BUFFER / CONSERVATION
- ACCESS POINT
- PEDESTRIAN BRIDGE

EXHIBIT 2

HAMILTON BOULEVARD REDEVELOPMENT AREA

GRAPHIC SCALE (in feet)



THP, Inc.
East Brunswick, New J

847590221

As shown on the Redevelopment Plan, the northwest portion of the redevelopment area in vicinity of Hamilton Boulevard is proposed for retail and commercial development. Within this area presently, is a South Plainfield Borough Police sub-station which is proposed to remain. The sub-station is shown on the northerly corner of the New Market Avenue intersection with Hamilton Boulevard as a "Public Use" on the Redevelopment Plan. Access for the retail uses would be provided along Hamilton Boulevard, with internal access to on-site municipal parking provided in vicinity of the New Market Avenue intersection and also further northeast along Hamilton Boulevard.

An additional lot identified for "public use/intersection improvement" is shown on the southerly side of New Market Avenue. This Plan designation is shown to facilitate roadway improvements in vicinity of the intersection. It is proposed that the balance of lot area for this parcel not used for roadway widening purposes be combined and developed for retail/commercial use.

Additional commercial development is shown on the Plan, located further away from Hamilton Boulevard adjacent to the proposed retail area. This portion of the overall redevelopment area is identified for "Mini-Storage"

development. Primary access to this portion of the redevelopment area would be provided in the vicinity of the New Market Avenue intersection with Hamilton Boulevard. It is recommended that secondary access also be provided internally from the office/warehouse area located in the central portion of the redevelopment area.

The "Office/Warehouse" land use designation comprises the largest portion designated for development. Located in the central portion of the tract, primary access to this proposed development would be from Spicer Avenue, near Garibaldi Avenue. Secondary access for the office/warehouse development area is also shown from Spicer Avenue, near Fulton Street.

"Municipal Parking" is shown to be provided on the northerly portion of the site. This area would accommodate patron parking for the retail/commercial establishments within the redevelopment area as well as for nearby retail commercial businesses. Access to this municipal parking area would be provided from Hamilton Boulevard as shown on the Redevelopment Plan.

"Semi-public" use is shown on a small separate portion of the redevelopment area, adjacent to the Lehigh Valley Railroad right-of-way. This designation reflects an existing semi-public use located on the lot.

The remaining portions of the redevelopment area are shown for "Buffer/Conservation" area. The portion of land along Spicer Avenue is proposed for landscaped buffer to screen the mini-storage and office/warehouse portions of the redevelopment area from residential dwellings located on the opposite side of Spicer Avenue. A larger area proposed for conservation is located along the easterly and southerly portion of the redevelopment area. This designation reflects existing environmentally sensitive areas on Lot 1 of Block 256 which include an existing stream and associated floodplain area and wetlands areas.

A small area shown for conservation is shown to the north of the retail area, in vicinity of the municipal parking area. This designation is intended for open space area available for passive recreational use to the general public.

In addition to the Land Use Plan designations shown on the Redevelopment Plan, pedestrian access to the area is shown from the northerly side of the Lehigh Valley Railroad in vicinity of the proposed municipal parking area.

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This bridge is intended to provide pedestrian access over the railroad to the existing Historic Downtown District located on the northerly side of the railroad corridor.

Intersection and roadway improvements associated with the redevelopment area are also proposed along Hamilton Boulevard and in particular, at the New Market Avenue intersection. Roadway improvements to Hamilton Boulevard include reconstruction of the roadway with the provision for separate turning lanes (northbound and southbound) at New Market Avenue and reconfiguration of the roadway in the vicinity of the Lakeview Avenue/Hamilton Boulevard intersection. Along with upgrade of the existing traffic signal at the Hamilton Boulevard/New Market Avenue intersection, roadway improvements include the reconstruction of the New Market Avenue approach to Hamilton Boulevard, with the provision for separate eastbound left-turn and right-turn lanes. Pedestrian sidewalk improvements are also proposed for Hamilton Boulevard and New Market Avenue.

IMPLEMENTATION OF THE PLAN

The implementation of the "Redevelopment Plan" will require a cooperative effort between the Borough of South Plainfield, the developer(s) of the subject lands and all interested parties including current property owners, the business community and public at large. Cohesive and architecturally compatible redevelopment must be provided while still meeting the needs of the community and effectuating the goals and objectives of the Redevelopment Plan noted previously. Most importantly, the Redevelopment Plan must effectuate the goals and objectives of the Borough Master Plan and Development Ordinances.

Specific zoning amendments are not yet proposed to implement the "Redevelopment Plan". It is suggested that these detailed ordinance provisions be crafted after additional planning, engineering and architectural schemes are developed in consultation with prospective developers, following the general intent of the "Conceptual Design Plan" for the tract.

Pursuant to N.J.S.A. 40A:12A-7(a)(4), all parcels shown on Exhibit 1, "Study Area," and further identified on Table 1 may be acquired by negotiation or condemnation in accordance with N.J.S.A. 40A:12A-8(b) and (c). Any structures on such properties may be demolished and the assembled site developed in accordance with the provisions of this Redevelopment Plan. Lot consolidation to the extent practical and permissible, shall be a goal of this Redevelopment Plan. To the extent necessary, public easements shall be negotiated and effectuated between the Borough of South Plainfield and the redeveloper on any project.

Any displaced resident within the Redevelopment Area shall be offered relocation assistance in accordance with applicable state law. Such relocation assistance shall be directed towards decent, sanitary, safe and affordable dwelling units within the local housing market, which are hereby acknowledged as existent.

This Redevelopment Plan is consistent with the goals and objectives of the Borough Master Plan, the New Jersey State Development and Redevelopment Plan and the Middlesex County Master Plan.

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Financial incentives may be utilized by the Borough of South Plainfield to foster the redevelopment efforts outlined within this Redevelopment Plan. Such incentives may include the use of short and long term tax incentives. The Borough may also be eligible for grant funds for public improvements necessary to facilitate a redevelopment project, and it shall take a proactive approach to securing such funds.

The Borough of South Plainfield may select or approve of a redeveloper to undertake a redevelopment project in furtherance of this Redevelopment Plan through various means. The Borough may prepare a Request for Qualifications (RFQ), to include, at a minimum: (1) a description of the redevelopment entity, disclosure of ownership interest, list of references, list of general or limited partners, financial profile of the redevelopment entity, and where applicable, a list of comparable projects successfully completed; (2) a description of the proposed use for the redevelopment projects, including analysis of the site, environmental impact and assessments, and overall approach to site development; and (3) anticipated construction schedule. Upon receipt and consideration of applications submitted in response to a RFQ, the Borough may select and approve by Resolution among redeveloper(s), or it may reject all applications.

The Borough may also, at any time, entertain an unsolicited proposal from a prospective redeveloper. The Borough will have the option of conferring redeveloper status to such unsolicited redeveloper applicant upon consideration and approval by Resolution of the proposal, or it may put out a RFQ to solicit interest in the subject project from other potential developers.

The Borough is sensitive to the issues and desires of the present owners and thus such owners shall be given opportunity to participate in the redevelopment program. If, in any instance, the Borough chooses to issue a RFQ, the property owners within the designated redevelopment area shall be given notice of the issuance of such RFQ and be given an opportunity to offer a proposal in conformity with such RFQ.

The Borough of South Plainfield may designate a redevelopment entity as a Conditional Redeveloper for a particular project subject to the successful negotiation and execution of a redevelopment agreement with the Borough within twelve (12) months of conditional designation. An extension to this negotiation period may be granted in additional six (6) month increments, or the Borough may terminate the conditional redeveloper designation.

All approved redevelopers must enter into a written redeveloper agreement with the Borough of South Plainfield, pursuant and subject to N.J.S.A. 40A:12A-9.

Streetscape

Every consideration shall be given to improving the aesthetic appearance and curb appeal of the redevelopment area, including efforts to minimize excessive signage. Efforts shall also be made to maximize the use of shade trees and plantings, to the extent practical considering the environmental issues of the site.

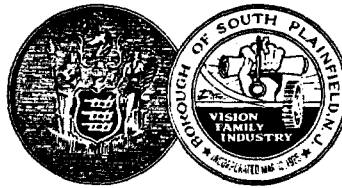
Integration of canopies and awnings into the architectural design of redevelopment projects is encouraged, subject to the approval of the Borough. Business identification through the use of lettering and/ or logos on such canopies and awning will be permitted, provided it is part of the design and construction of the canopy or awning, and will not require a separate sign permit.

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Additional signage standards shall apply throughout the redevelopment area, and no others signage will be permitted except as follows: (1) each business establishment with one or more independent entrances in a retail or office center will be entitled to one building sign to identify each entrance. The site plan submitted to the Planning Board must include building elevation drawings that incorporate locations designed into the building facades for identification signage that is part of the architectural context of the building. The size and graphics of the signage plan will be subject to approval of the Planning Board; (2) where a single building entrance is shared by two or more business establishments, a directory identification sign may be used to identify the name and location of each business, and such directory signs must be incorporated into the signage plan as described at (1) above; (3) storefront windows must be used for orderly display of merchandise and will not be permitted to become cluttered with temporary signage, flyers, leaflets, price advertisements or other material; (4) temporary sandwich board style signs will only be permitted for use in conjunction with a sidewalk café attached to a restaurant pursuant to an approved site plan by the Planning Board, and such signs may not exceed six square feet, must contain only the

restaurant name and a menu, and must be removed when the outdoor café is not in use; (5) each new business establishment will be permitted one temporary banner announcing a grand opening for a period of three (3) calendar weeks from the first full or partial day it is open to the public, but such banner must not be larger than 5 percent of the façade area of the building occupied by the new business and must not be located anywhere other than on the front business façade.

Adequate and aesthetically attractive lighting throughout the redevelopment area shall be an integral component of this Redevelopment Plan, and efforts shall be made to incorporate such lighting into any redevelopment project undertaken within the area. To the extent practical, the transfer of utilities underground should be considered, and the costs of such transfer shall be allocated pursuant to N.J.S.A. 40A:12A-10.



847590233

BOROUGH OF SOUTH PLAINFIELD

2480 Plainfield Avenue
South Plainfield, NJ 07080

ENVIRONMENTAL COMMISSION

AREA CODE 908
Mayor's Office - 226-7601
Administrator - 226-7602
Assessing - 226-7623
Building Dept. - 226-7640
Clerk - 226-7606
Emergency Mgmt. - 226-7718
Engineering - 226-7635
Environmental - 226-7621
Finance - 226-7615
Fire Official - 756-4761

AREA CODE 908
Health - 226-7630
Library - 754-7885
Municipal Court - 226-7651
Plan Bd/Bd. of Adj. - 226-7641
Police - 755-0700
Public Works - 755-2187
Recreation - 226-7713
Recycling - 226-7621
Social Services - 226-7625
Tax/Sewer - 226-7610

July 11, 2003

Mr. Pete Mannino
Remedial Project Manager
U.S. EPA, Region II
290 Broadway, 19th Floor
New York, NJ 10007-1866

Re: Cornell-Dubilier Electronics Site
Proposed Plan

Dear Mr. Mannino:

The South Plainfield Environmental Commission has reviewed the cleanup alternatives for Operable Unit 1 that are outlined in the June 2003 document "Superfund Program Proposed Plan Cornell-Dubilier Electronics Site." The members have asked me to convey their comments to you.

The Commission supports Alternative 3: Excavation and Off-Site Disposal with Treatment. This alternative provides a permanent solution without need for on-going monitoring. It also avoids the complication of possible failure of institutional controls (e.g., future property owners' or tenants' ignorance of deed restrictions). Moreover, it appears to be ultimately less expensive than Alternative 2.

The Commission requests that you consider the following additional points:

1. New Jersey Department of Environmental Protection's residential cleanup standard of 0.49 ppm is lower than US EPA's standard of 1 ppm. This difference is causing some uneasiness and an adversarial atmosphere that is unnecessary and could delay action. The Commission recommends that EPA work with the State to resolve the standards conflict before work begins. The Commission would like to see the properties cleaned to the level of the NJDEP's standard, and hopes that a means to achieve this can be found.
2. Discovery of PCB contamination along the Borough's right of way suggests that contaminated dust has settled in the street. Spicer Avenue looks like a quiet, residential side street, but it is the main route to the Borough's solid waste and recycling facilities as well as to the ball fields. It is a heavily traveled road, and has

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July 11, 2003

been for decades. Passing vehicles probably have moved contaminated dust along the roadway. The Commission believes that EPA should include testing the stormwater catch basins in its sampling program. If, over the years, contaminated dust has been continually blown off-site onto the roadway, then it has also been continually washed into the storm drains by rain. If there are significant PCB concentrations in the catch basins, they will serve as an ongoing source of PCB input to the Bound Brook. Although surface water will be addressed as part of OU3, the Commission believes that sampling the catch basins could be done now as part of OU1, since the catch basins are in the right of ways that will be resampled.

The Environmental Commission and I appreciate the opportunity to comment on this proposal. Please feel free to call on us if we can be of assistance in furthering the remediation of this site.

Yours truly,



Alice S. Tempel
Environmental Specialist

Cc: J. Vokral

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